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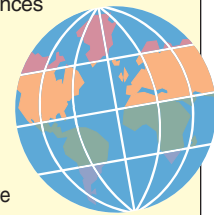
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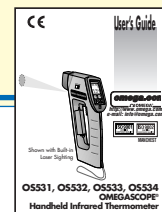
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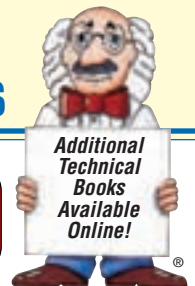
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(L to R) HE359DAC007, \$280, HE359ADC107, \$245, and HE359RTD100, \$280, shown smaller than actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
HE359DIQ512	\$200	I/O module, 4 DC inputs (12/24 Vdc), 4 relay outputs (250 Vac, 30 Vdc, 2A max)
HE359ADC107	245	I/O module, 4 analog inputs, voltage (± 10 Vdc), 1 mV resolution
HE359RTD100	280	I/O module, 4 RTD inputs (Pt-100, Ni-100, Pt-1000, Ni-1000) or resistance inputs (0 to 2000 Ω), 0.1°C resolution
HE359THM100	280	I/O module, 4 thermocouple inputs (Types J, K, R, S, B, E, T, N) or millivolt inputs (± 1000 mV, max), 0.1°C resolution
HE359DAC107	425	I/O module, 4 analog outputs, selectable between voltage (0 to 10 Vdc) and current (0 to 20 mA), 1 mV/1 μ A resolution

Ordering Examples: HE359THM100, I/O module, 4 thermocouple inputs, \$280. HE359RTD100, I/O module, 4 RTD inputs, \$280.

PLC/HMI Controllers* Low-Cost Compact "All-in-One" Graphical OCS

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HE-XL102, \$1550.

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HE-XT102, \$775.

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All models shown smaller than actual size.

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HE-XE102, \$445.

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ELC Programmable Logic Controllers and Modules

For Complete Details Visit omega.com/elc_plc

ELC Series Starts at **\$202**



- ✓ Base Models with 10 to 14 I/O, Expandable to 256
- ✓ Half the Size of Most PLCs
- ✓ 1-, 4-, 8-, 16-and 32-Bit Instructions
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The Eaton Logic Controller (ELC) is Eaton Cutler-Hammer's latest offering into the PLC (Programmable Logic Controller) market. Using the latest technology

this reduced-sized ELC, with its abundant module selection provides a "just right" concept, for delivering only what you want for the price you desire.

Intelligent Relays

EZ Series Starts at **\$143**



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- ✓ 8 Digital Inputs/4 Relay Outputs
- ✓ 128 Rungs of 3 Contacts and 1 Coil Each
- ✓ 16 Operating and Message Texts
- ✓ 2 Analog Inputs (10-Bit) Optional (Not with 240 Vac)
- ✓ 2 High-Speed Inputs, 1 kHz (Only DC Devices)

The EZ intelligent relays bring timers, relays, counters, special functions, inputs and outputs into one compact device that is easily configured. Providing exceptional levels of flexibility together with substantial savings in commissioning time and effort.

EZ512-DC-RC, \$186, shown smaller than actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)									
Model No.	Price	Description	Inputs					Outputs	
			24 Vac	110 to 240 Vac	12 Vdc	24 Vdc	Analog	Relay	
EZ512-AC-RC	\$186	12 I/O, clock, display	—	8	—	—	—	—	4
EZ512-DC-RC	186	12 I/O, clock, display	—	—	—	8	2	4	
EZ512-DC-RCX	143	12 I/O, clock, no display	—	—	—	8	2	4	

Comes complete with installation guide.

Ordering Example: EZ512-DC-RCX, 12 I/O, clock, no display, \$143.

To Order, Call **1-800-82-66342** ³ or Shop Online at omega.com

Intelligent Relays

EZ700 Series
Starts at
\$225

For Complete
Details Visit
omega.com/ezseries

- ✓ 12 Digital Inputs
- ✓ 6 Relay Outputs
- ✓ 128 Rungs of 3 Contacts and 1 Coil Each
- ✓ 16 Operating and Message Texts
- ✓ 4 Analog Inputs (10-Bit) Optional (Not with 230 Vac)
- ✓ 2 High-Speed Inputs, 1 kHz (Only DC Devices)

- ✓ 1 Digital Expansion or Network Connection

The EZ700 Series is for controlling medium-sized applications with up to 40 input/output signals. DIN rail mounted.



EZ719-DC-RC, \$262, shown smaller than actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)								
Model No.	Price	Description	Inputs					Outputs
			24 Vac	110 to 240 Vac	12 Vdc	24 Vdc	Analog	Relay
EZ719-AC-RC	\$262	18 I/O, clock, display	—	12	—	—	—	6
EZ719-AC-RCX	225	18 I/O, clock, no display	—	12	—	—	—	6

Comes complete with installation guide.

Ordering Example: EZ719-AC-RCX, 18 I/O, clock, no display, \$225.

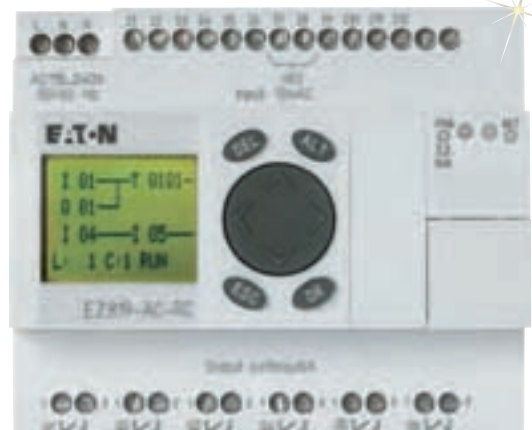
EZ800 Series
Starts at
\$362

For Complete
Details Visit
omega.com/intelligent-relays

- ✓ 12 Digital Inputs
- ✓ 6 Relay Outputs
- ✓ 256 Rungs of 4 Contacts and 1 Coil Each
- ✓ 32 Operating and Message Texts
- ✓ 4 Analog Inputs (10-Bit) Optional (Not with 230 Vac)
- ✓ 4 High-Speed Inputs, 3/5 kHz (Only DC Devices)

- ✓ 1 Digital Expansion or Network Connection
- ✓ Networkable via EZ-NET with Up to 8 Stations
- ✓ 1 Analog Output (10 bit)

The EZ800 Series is for controlling large scale applications with up to 320 input/output signals. Models are available with and without displays. DIN rail mounted.



EZ819-AC-RC, \$415, shown smaller than actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)							
Model No.	Price	Description	Inputs			Outputs	
			110 to 240 Vac	24 Vdc	Analog	Relay	Analog
EZ819-AC-RC	\$415	18 I/O, clock, display	12	—	—	6	—
EZ819-DC-RCX	362	18 I/O, clock, no display	—	12	4	6	—
EZ820-DC-RC	465	19 I/O, clock, display	—	12	4	6	1

Comes complete with installation guide.

Ordering Example: EZ819-DC-RCX, 18 I/O, clock, no display, \$362.

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Web Enabled Controllers

CSMSTR Series
Starts at
\$899

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- ✓ Up to 5 Serial Communications Ports + Ethernet Port—Runs 4 Ethernet Protocols Simultaneously
- ✓ Supports up to 32 Independent PID Loops with Ramp/Soak
- ✓ Provides IT-Ready Data Logging
- ✓ Webserver Provides Worldwide Access to Data Logs and Virtual HMI
- ✓ Virtual HMI Offers Built-In PC-Based SCADA Functionality
- ✓ Extensive Built-In Driver List Allows Easy Data Mapping to PLCs, PCs, Motion Controllers, and SCADA Systems

The CSMSTR is a communications and control platform which can turn your PLC or controller into a SCADA system. With its extensive list of built-in drivers, up to 5 serial ports, and an Ethernet port capable of running four different protocols simultaneously, the CSMSTR allows



CSPID1R0, \$227, and CSPID2R0, \$340, shown smaller than actual size.

disparate controllers and devices to communicate with each other. The CSMSTR can log data from any device connected to it. Log files are stored on a CompactFlash memory card, and can be automatically copied to network storage. The CSMSTR has a built-in web server which allows remote access from any network-connected PC and can send alarm messages to your email and cellphone. To turn your PLC into a temperature controller simply add CS-series control modules for PID loop control with ramp/soak capabilities (up to 32 independent zones). Implement PID control of any process variable, including pressure, flow, and strain gauge inputs in addition to temperature.



CSMSTRSX, \$899, shown smaller than actual size.

The CSMSTR allows data to be shared between any connected devices. Data registers from one PLC can be mapped to registers from a different PLC or controller.

Create virtual web pages, incorporating data tags from any connected device, which can be accessed from any network-connected PC or web-enabled phone. The CSMSTRSX provides a QVGA (320 x 240) virtual HMI, while the CSMSTRGT provides full-size VGA (640 x 320) pages.

Log data to a CompactFlash card from any connected device, then automatically copy the comma-delimited (.csv) log files to a network drive at pre-defined intervals.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)		
Model No.	Price	Description
CSMSTRSX	\$899	Modular controller master, multiple serial ports and ethernet, protocol converter, data logger, web server, QVGA (320X240) virtual HMI
CSMSTRGT	1199	Modular controller master, multiple serial ports and ethernet, protocol converter, data logger, web server, full VGA (640X480) virtual HMI
CSPID1R0	227	Single loop PID temperature module, relay outputs
CSPID2R0	340	Dual loop PID temperature module, relay outputs
CSPID1SA	247	Single loop PID temperature module, solid state outputs, analog output
CSPID1TA	247	Single loop PID temperature module, triac outputs, analog output
CSDIO14R	247	8 digital inputs, 6 relay outputs
CSINI800	536	8 analog inputs, 4 to 20 mA
CSINV800	536	8 analog inputs, ±10 V
CSSG10RA	320	Single loop PID strain gage module, relay outputs, analog output

Ordering Examples: CSMSTRSX, master controller with QVGA virtual HMI, CSPID1R0, single-loop PID temperature module with relay outputs, \$899 + 227 = \$1126.

CSMSTRGT, master controller with full VGA virtual HMI, CSSG10RA, single-loop PID strain gage module with relay and analog outputs, \$1199 + 320 = \$1519.

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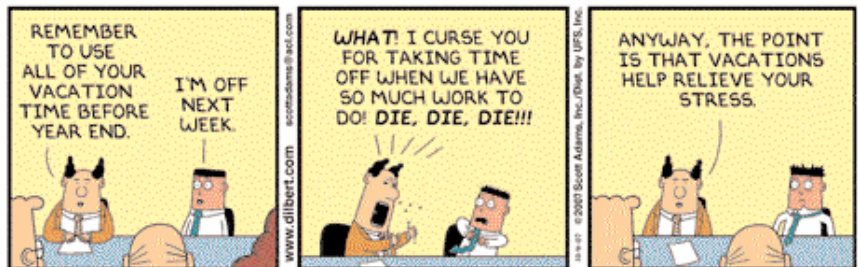
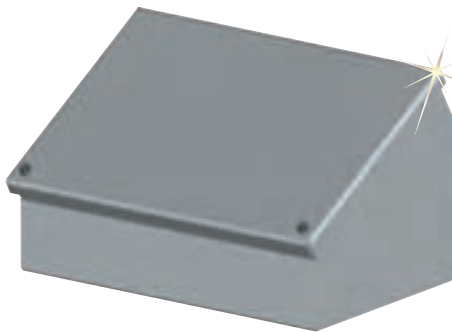


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SCE Series Starts at \$105

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Operator Interfaces/HMIs



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- ✓ True Analog Touchscreen
- ✓ Retentive Internal Data Storage
- ✓ Real Time Trending/ Stored Data Trending
- ✓ Alarming, Alarm Storage, Alarm Frequency
- ✓ Event Storage (History)
- ✓ USB Programming, Memory Storage, Printer

- ✓ Recipe Storage
- ✓ On-Line/Off-Line Simulation
- ✓ I/O Expansion Slot (Except 4" Models)

All models shown smaller than actual size.

- ✓ 10-Level Password Protection

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MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
HMI04BU	\$410	HMI 4" blue mode touchscreen
HMI06CE	875	HMI 6" color mode touchscreen with expansion slot

Ordering Example: HMI04BU, HMI 4" blue mode touchscreen, \$410.

GP Series
Starts at
\$281



For Complete Details Visit omega.com/elc_gp



ELC-GP02, \$281, shown smaller than actual size.

- ✓ 10 Programmable Function Keys
- ✓ Two Serial Ports (RS232/RS485)
- ✓ Supports: Eaton D50/D32LT, D320, ELC
- ✓ MODBUS® ASCII/RTU
- ✓ Allen Bradley DF1
- ✓ Mitsubishi FX, FX2N Series
- ✓ OMRON C-Series
- ✓ Siemens 57-200 Series
- ✓ Koyo K-Sequence
- ✓ LG 200S
- ✓ ASCII Slave Mode And More!

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
ELC-GP02	\$281	Graphics panel, 160 x 32 pixels, 10 function keys, monochrome
ELC-GP04	420	Graphics panel, 128 x 64 pixels, 10 function keys, monochrome

Accessories		
Model No.	Price	Description
ELC-CBPCELC3	\$46	Cable to connect ELC-GP to an ELC controller or PC, 3 m (9.8')
ELCSOFTGP	289	Programming software for GP units

Ordering Example: ELC-GP04, graphics panel, 128 x 64 pixels, \$420.

To Order, Call **1-800-82-66342** or Shop Online at omega.com

Web-Enabled Operator Interface

3 to 10" Display

G303 Series
Starts at
\$599



For Our Complete Selection of HMIs Visit omega.com/hmi



G303 Series HMI, starts at \$599, shown smaller than actual size.

- ✓ Up to 5 RS232/422/485 Communications Ports
- ✓ Built-in Ethernet Port to Network Units and Host Web Pages
- ✓ USB Port: Download Configuration from PC or Transfer Data to PC
- ✓ CompactFlash® Socket to Increase Memory Capacity
- ✓ Keypad For On-Screen Menus
- ✓ Keypad for Data Entry (G303 Series)
- ✓ Power Unit From 24 Vdc Supply
- ✓ Resistive Analog Touchscreen (All Models Except G303)
- ✓ For Use in Hazardous Locations: Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups F and G; Class III, Division 2

The G303 Series operator interface terminals combine unique capabilities normally expected from high-end units with a very affordable price. The G303 Series is able to communicate with many different types of hardware using high-speed RS232/422/485 communications ports and Ethernet 10Base-T/100Base-TX communications. In addition, the G303 features USB for fast downloads of configuration files and access to trending and data logging. A CompactFlash socket is provided so that Flash cards can be used to collect your trending and data logging information as well as to store larger configuration files. In addition to accessing and controlling of external resources, the G303 Series allows a user to easily view and enter information. The unit uses a Liquid Crystal Display (LCD) module, which is easily readable in both indoor and outdoor applications. Users can enter data through the front panel 32-button keypad (G303) that has user identifiable keys. Other models allow data entry through the touchscreen and/or front panel keypad.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
G303M000	\$599	3.2" operator interface, LCD 128 x 64 pixels, indoor use
G306A000	1299	5.7" operator interface LCD, TFT, indoor, QVGA, 5-button keypad
G308C000	1499	7.7" operator interface LCD, DSTN, 640 x 480, indoor, 7-button keypad
G310S000	2599	10.4" operator interface LCD, TFT, outdoor, 8-button keypad

Ordering Example: G303M000, 3.2" web enabled operator interface, SFCRM200, Crimson programming software, manual and USB cable, \$599 + 62 = \$661.

Accessories

Model No.	Price	Description
G3CF064M	\$90	64 MB compact flash card (industrial grade)
G3CF256M	235	256 MB compact flash card (industrial grade)
G3CF512M	368	512 MB compact flash card (industrial grade)
SFCRM200	62	Crimson programming software, manual and USB cable
PSDR0100	129	DIN rail power supply, 24 Vdc, 1 A (recommended for G30303/G30306)
PSDR0200	159	DIN rail power supply, 24 Vdc, 2 A (recommended for G308)
PSDR0400	199	DIN rail power supply, 24 Vdc, 4 A (recommended for G310)
CBLPROG0	41	RS232 programming cable
CBLUSB00	26	USB programming cable (included with SFCRM200)
G3RS0000	131	Two port RS232/485 (isolated) option card
G3PBDP00	395	Profibus option card
G3DN0000	395	DeviceNet option card
G3CN0000	135	CANopen option card

Ordering Example: G3RS0000, two port RS232/485 (isolated) option card, \$131.

Power Supplies

1 to 10 Amp Models

For Our Complete Selection Visit omega.com/power-supplies

ELC-PS Series Starts at **\$67**



- ✓ Universal AC Input (100 to 240 Vac)
- ✓ 24 Vdc Output
- ✓ Protections: Short Circuit/Overload (AutoRecovery)
- ✓ UL 508 (Industrial Control Equipment) Approved
- ✓ DIN Rail Mount

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
ELC-PS01	\$67	DIN rail power supply, 24 Vdc, 1 A
ELC-PS02	97	DIN rail power supply, 24 Vdc, 2 A

Ordering Example: ELC-PS01, DIN rail power supply, 24 Vdc, 1 A, \$67.



Visit omega.com/elc-ps for details on this series.

ELC-PS01, \$67, shown smaller than actual size.

DR Series Starts at **\$144**



- ✓ Universal AC Input (85 to 264 Vac)
- ✓ DC Compatible Input (120 to 370 Vdc)
- ✓ Protections: Short Circuit/Overload/Over Voltage/Over Temp
- ✓ UL 508 (Industrial Control Equipment) Approved
- ✓ Built-In EMI Filter and Low Ripple Noise

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
DR-75-24	\$144	DIN rail power supply, 24 Vdc, 3.125 A
DR-120-24	168	DIN rail power supply, 24 Vdc, 5 A
DR-240-24	229	DIN rail power supply, 24 Vdc, 10 A

Ordering Example: DR-75-24, DIN rail power supply, 24 Vdc, 3.125 A, \$144.



DR-120-24, \$168, shown smaller than actual size.

Visit omega.com/dr_series for details on this series.

Stepper Drive Power Supplies

- ✓ Universal Input Voltage Range from 85 to 265 Vac
- ✓ 24 Vdc (6.3 A), 48 Vdc (6.7 A)
- ✓ Built-In Active PFC Filter, PF>0.95, Conforms to EN61000-3-2
- ✓ Peak Current For Motor Application

OMPS Series Starts at **\$180**



AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
OMPS150A24	\$180	24V, 6.3 A power supply with active PFC filter
OMPS300A48	266	48V, 6.7 A power supply with active PFC filter

Ordering Example: OMPS150A24, 24V, 6.3 A power supply with active PFC filter, \$180.



OMPS150A24, \$180, shown smaller than actual size.

Visit omega.com/omps for details on this series.

To Order, Call **1-800-82-66342** or Shop Online at omega.com

Stepper Motors

Frame Sizes From NEMA 11 to 34

Stepper Motors
Start at
\$55

For Our Complete Selection Visit omega.com/stepper-motors

Wide Range of Motor Sizes!



All models shown smaller than actual size.

MEGAMATION offers a robust line of 2-phase step motors ranging in frame size from NEMA 11 to 34. In the most common frame sizes high torque (HT) motors are available. All motors conform to industry-

standard NEMA mounting dimensions, and are offered with a range of well-featured, compatible drives and indexers.

Stepper Drives

Step+Direction, Oscillator, Stand-Alone Programmable, High-Performance

Stepper Drives
Start at
\$189



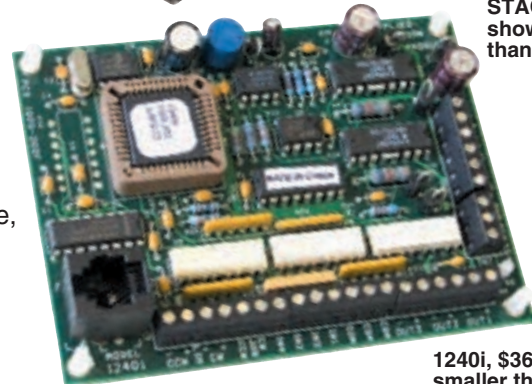
For Our Complete Selection Visit omega.com/stepper-drives



STM23S-3RN, \$500, shown smaller than actual size.



STAC6-Si, \$1393, shown smaller than actual size.



1240i, \$360, shown smaller than actual size.

MEGAMATION offers a wide variety of stepper drives to complement our selection of stepper motors, from the basic step+direction drives (2035, 3540M) to the high-performance, programmable microstepping drives (ST5, ST10, STAC6). We also offer integrated drive+motor combinations (STM23 series), which fuse stepper motor, drive, and controller technologies into a single device.

To learn more about step motor/drive basics, visit omega.com/intro-to-stepper-motors

Inductive Proximity Sensors

High Performance E57 Premium+ Series

12, 18 and 30 mm Dia

Visit omega.com/e57 for details on this series.

E57 Series Starts at **\$69**



E57LAL18T111E, \$77, shown actual size.

For Our Complete Selection Visit omega.com/inductive-prox

- ✓ 2- or 3-Wire, DC, and AC/DC Multiple Range Sensor Models
- ✓ Manufactured to Take Abuse
- ✓ 360° Output Status Indicator is Easily Visible
- ✓ Wide Temperature Range

- ✓ Stainless Steel Barrel and Potting Compound for Robust, High Temp/ Pressure Washdown, and Intense Shock and Vibration Applications

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)						
Type	Model No.	Price	Operating Voltage	Sensing Range (Sn) mm (in)	Shielding	Connection Type
2-Wire Sensors						
18 mm Dia NO Output	E57SAL18A2	\$101	24 to 240 Vac 50/60 Hz* 20 to 240 Vdc	5 (0.2)	Shielded	2 m (6') cable
3-Wire Sensors						
12 mm Dia NO Output	E57LAL12T110E	\$69	6 to 48 Vdc	4 (0.16)	Unshielded NPN	2 m (6') cable
18 mm Dia NO Output	E57LAL18T110E	77		8 (0.3)		
30 mm Dia NO Output	E57LAL30T110ED	98	6 to 48 Vdc	15 (0.6)	Unshielded NPN	4-pin micro DC connector

* Avoid wiring these AC/DC models in series as the sensors may not perform reliably. Contact OMEGAs Automation Sales Department with questions.
Ordering Example: E57SAL18A2, 2 wire, 18 mm (0.7") Dia end sensing proximity switch with NO output and 2 m (6') cable, \$101.

Photoelectric Sensors

E58 Series Starts at **\$266**



E58-18DP100-EL, \$266, shown smaller than actual size.

For Our Complete Selection Visit omega.com/photoelectric-sensors

- ✓ Tempered Glass Lens Cover Protects Against Abrasion

- ✓ Output Indicator is Visible for Full 360°
- ✓ Long Sensing Ranges with Unmatched Optical Performance
- ✓ Exceptional Background Rejection
- ✓ Suitable for High Temperature, High Pressure Washdown 83 bar (1200 psi)
- ✓ Visible Sensing Beam for Quick Setup and Alignment
- ✓ Available with Both AC and DC Operation in a Single Unit

Perfect Prox® Background Rejection Sensors, 2-Wire Sensors **MOST POPULAR MODELS LISTED!**

To Order (Specify Model Number)										
Size/Type	Model No.	Price	Operating Voltage	Nominal Range ¹	Optimum Range	Cut Off Range ²	Field of View	Conn. Type	Light Operate	Dark Operate
18 mm Perfect Prox	E58-18DP100-EL	\$266	90 to 132 Vac 50/60 Hz or 18 to 50 Vdc	100 mm (4")	13 to 76 mm (0.5 to 3")	127 mm (5") and beyond	10 mm (0.38") Dia. @ 100 mm (4")	2 m Cable	Y	N
30 mm Perfect Prox	E58-30DPS280-EL	362	90 to 132 Vac 50/60 Hz or 18 to 50 Vdc	280 mm (11")	28 to 228 mm (1 to 9")	318 mm (12.5")	26 mm (1") Dia. @ 280 mm (11")	2 m Cable	Y	N

¹ Sensor will detect 90% reflectance card at this range. ² Sensor will ignore 90% reflectance card at this range.
Ordering Example: E58-18DP100-EL, 18 mm diameter perfect prox reflex with 2 m (6') cable, \$266.

To Order, Call **1-800-82-66342** or Shop Online at omega.com



Closed Loop DC Speed Control

OMDC-MD Series
Starts at
\$515



For Complete
Details Visit
omega.com/omdc-md

- ✓ Adjustable Min/Max
- ✓ Adjustable Accel/Decel
- ✓ NEMA 4X (IP66) Rating
- ✓ Pulse Input Capacity of 50,000 PPM, 833 Hz
- ✓ Programmable Power-On Initial Settings
- ✓ User-Friendly Programming from the Front Panel
- ✓ Program for Any Engineering Unit



OMDC-MD10P, \$515, shown smaller than actual size.

The OMDC-MD Series is a compact, programmable DC speed control with digital closed loop feedback and LED display for DC motors rated to 2 horsepower.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)				
Model No.	Price	Physical	Max Arm DC Amps	Max Hp
OMDC-MD10P	\$515	1/8 DIN panel mount	5	1
OMDC-MD3P	719	1/4 DIN panel mount	10	2
Optional Sensor				
OMDC-PU-40E	\$114	Shaft mounted pick-up sensor, 20 pulses per revolution		

Comes complete with operator's manual.

Ordering Examples: **OMDC-MD10P**, digital closed loop DC speed control for max 1 HP motor with 5 Arm Amps, and **OMDC-PU-40E**, shaft mounted pick-up sensor with 20 pulses per revolution, \$515 + 114 = \$629.

Variable Speed DC Control

OMDC-250 Series
Starts at
\$299

For Complete
Details Visit
omega.com/omdc-250



- ✓ Dual Voltage—120/240 Vac
- ✓ Adjustable Horsepower Settings
- ✓ NEMA 4/12 or 4X (IP66) Enclosure

- ✓ Packaged Bridge Supply (Full Wave)
- ✓ Adjustable Minimum and Maximum Speeds
- ✓ Adjustable Acceleration
- ✓ Adjustable Current Limit to 15 A

The OMDC-250 Series variable speed DC control offers superb flexibility, reliability, and value. A general purpose, economical control that is rated and tested to 2 horsepower.

OMDC-253G-200E, \$299, shown smaller than actual size.

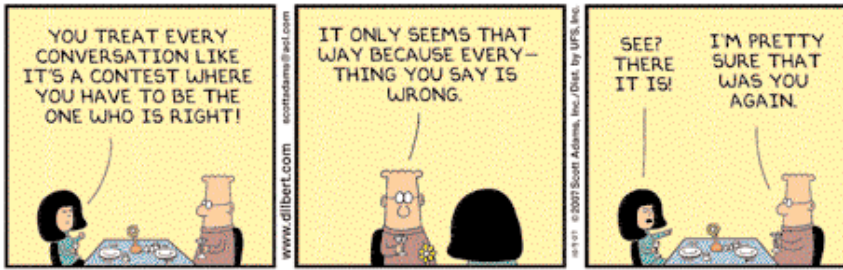


MOST POPULAR MODELS LISTED!

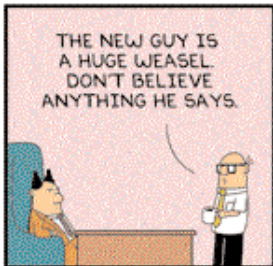
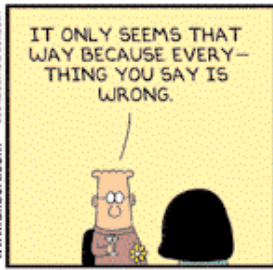
To Order (Specify Model Number)		
Model No.	Price	Description
OMDC-253G-200E	\$299	Dual voltage variable speed DC control in NEMA 4/12 enclosure
OMDC-253G-200E-7	420	Dual voltage variable speed DC control with 4 to 20 mA isolated signal follower in NEMA 4/12 enclosure

Comes complete with operator's manual.

Ordering Example: **OMDC-253G-200E**, dual voltage speed control in NEMA 4/12 enclosure, \$299.



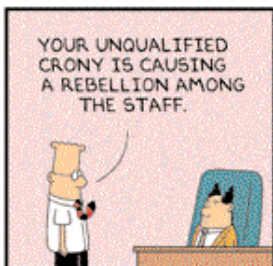
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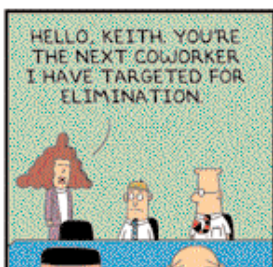
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Encoder Capable DC Motors

OMPM-DCE
Starts at
\$315



Visit omega.com/ompm-dce

AC or DC Motor Speed Sensors



OMDC-PU-E Series
All Models
\$114



Visit omega.com/omdc-pu-e

NEMA Type 12 Series 9 Consoles

SCE Consoles
Series
Starts at
\$1070



Visit omega.com/operator-consoles

Drives, Motors and Contactors

AC Drives

MVX9000 Series
Starts at
\$360



- ✓ Sensorless Vector Control with Auto Tuning
- ✓ PID Control of a Process Variable
- ✓ Built-In Dynamic Braking Chopper
- ✓ RS485 Communication
- ✓ Single-Phase or 3-Phase Input Capability on 240 Vac Rated Units, 3 hp and Below

For Complete Details Visit omega.com/mvx9000

For Our Complete Selection Visit omega.com/drives-motors



MVXF25A0-1, \$360, shown smaller than actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
MVXF25A0-1	\$360	0.25 hp AC drive, 115V 1 ph input, 230V, 3 ph output
MVX001A0-2	420	1 hp AC drive, 230V 1 ph/3 ph input, 3 ph output
MVX001A0-4	550	1 hp AC drive, 460V 3 ph input 460V, 3 ph output

Comes complete with operator's manual.
Ordering Example: MVXF25A0-1, 0.25 hp AC drive, 115V 1 ph input, 230V 3 ph output, \$360.

General Purpose AC Motors

OME Series
Starts at
\$117



- ✓ Cast Iron AC Motors: 1 to 5 hp
- ✓ NEMA T-Frame, NEMA Design B
- ✓ 203 to 230/460V, 3-Phase
- ✓ TEFC (Totally Enclosed Fan Cooled)
- ✓ Inverter Duty Capable



For Complete Details Visit omega.com/ome_series

OME1-18-143T, \$117, shown much smaller than actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
OME1-18-143T	\$117	143T frame cast iron motor, 208 to 230/460V, 3-phase, 1 hp, 1800 rpm
OME2-18-145T	152	145T frame cast iron motor, 208 to 230/460V, 3-phase, 2 hp, 1800 rpm
OME5-18-184T	221	184T frame cast iron motor, 208 to 230/460V, 3-phase, 5 hp, 1800 rpm

Ordering Example: OME1-18-143T, 143T cast iron motor, 1 hp, 1800 rpm, \$117.

IEC Contactors

XTCE/XTOB Series
Starts at
\$72



- ✓ Modular Design
- ✓ Compact Frame
- ✓ Easy to Install

For Complete Details Visit omega.com/xtce-xtob

XTCE018C10A, \$111, shown smaller than actual size.



MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
XTCE007B10A	\$72	Contactors 3P FVNR 7 A Frame B 1NO 110/50 120/60 AC Coil
XTCE018C10A	111	Contactors 3P FVNR 18 A Frame C 1NO 110/50 120/60 AC Coil
XTCE025C10TD	155	Contactors 3P FVNR 25 A Frame C 1NO 24-27 Vdc Coil

Comes complete with operator's manual.
Ordering Example: XTCE007B10A, contactor, \$72.

SIGNAL50 Warning Tower Lights

Assembled Stacklights or Components

WTL-L2B24D3D5D4, \$175.

Basic Systems
Start As Low As

\$70



For Our Complete Selection of Warning Lights Visit omega.com/stacklights

- ✓ Available as Assembled Stacklights or Components
- ✓ Six Lens Colors
- ✓ Variety of Lamp Types and Voltages
- ✓ Single and Dual Bi-Tonal Audible Alarms
- ✓ Multiple Mounting Options
- ✓ Up to Five Levels of Light or Audible Signaling Conditions
- ✓ Interchangeability of Light Option with Same Light Module

All models shown smaller than actual size.

WTL-L2B24Y4, \$175.

WTL-VB24D3D4, \$110.

WTL-SNB120D4, \$70.

Visit omega.com/omsl_series for details on this series.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)				
Model No.	Price	Levels	Color*	Description
WTL-SNB24D4	\$70	Single	R	24 Vac/dc surface mount ½ NPT base with steady light module and incandescent bulb
WTL-SNB120D4	70	Single	R	120 Vac surface mount ½ NPT base with steady light module and incandescent bulb
WTL-SNB24F4	100	Single	R	24 Vac/dc surface mount ½ NPT base with flashing light module and incandescent bulb
WTL-L2B24Y4	175	Single	R	24 Vac/dc 25 cm pole mount base with steady light module and LED bulb
WTL-SNB120D3D4	105	Two	G/R	120 Vac surface mount ½ NPT base with steady light module and incandescent bulbs
WTL-SNB24D3D4	105	Two	G/R	24 Vac/dc surface mount ½ NPT base with steady light module and incandescent bulbs
WTL-VB24D3D4	110	Two	G/R	24 Vac/dc vertical mount base with steady light module and incandescent bulbs
WTL-SNB120D3D5D4	140	Three	G/A/R	24 Vac/dc surface mount ½ NPT base with steady light module and incandescent bulbs
WTL-L2B24D3D5D4	175	Three	G/A/R	24 Vac/dc 25 cm pole mount base with steady light module and incandescent bulbs

* R=Red, G=Green, A=Amber

Ordering Examples: WTL-SNB24D4, assembled single tier stack light for 24 Vac/dc with surface mounting base with ½ NPT center thread or screw connection, red lens with steady light module and incandescent bulb, \$70.

WTL-L2B24D3D5D4, assembled 3-tier stack light for 24 Vac/Vdc with 25 cm pole mounting base, green-amber-red lens with steady light module and incandescent bulbs, \$175.

22.5 mm Pushbuttons and Indicating Lights

OMPBD7 Series
Complete Kits
Start at
\$22



For Our Complete
Selection of Pushbuttons,
Pilot Lights and E-Stops
Visit [omega.com/
pilot-devices](http://omega.com/pilot-devices)



OMPBD7P-MT34PX01,
\$45, shown smaller
than actual size.



OMPBD7M-F3PX10,
\$24, shown smaller
than actual size.

- ✓ Modular Design
- ✓ Tool-Less Mounting Latch
- ✓ Plastic Operators: NEMA 4/4X/13 (IP66) Environmental Rating
- ✓ Metal Operators: NEMA 4/13 (IP66) Environmental Rating

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
OMPBD7P-F2PX01	\$22	Plastic black 1 NC momentary-flush
OMPBD7M-F3PX10	24	Metal green 1 NO momentary-flush
OMPBD7D-P3D5	26	Green indicating light, 120 Vac, with incandescent bulb
OMPBD7D-P4N5	26	Red LED indicating light, 120 Vac/Vdc, with bulb
OMPBD7D-MT44X02	40	E-stop button, 40 mm red plastic bezel, 2 NC contacts

Ordering Examples: OMPBD7P-F2PX01, plastic black 1 NC non-illuminating momentary, flush pushbutton kit, \$22.
OMPBD7D-MT44X02, e-stop button with 40 mm red plastic bezel, 2 NC contacts, \$40.

Heavy-Duty 30.5 mm Metal Pushbuttons

10250T Series
Components
Start at
\$38⁷⁵



- ✓ Heavy-Duty Zinc Die Cast Construction
- ✓ Enclosed Silver Contacts with Reliability Nibs
- ✓ Diaphragm Seals with Drainage Holes
- ✓ Grounding Nibs on Operator Casing



10250T20LB,
\$63



10250T21LB,
\$63



10250T23B,
\$38.75



10250T25R,
\$38.75



10250T29,
\$85.50

All models
shown
smaller than
actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
10250T20LB	\$63.00	On/Off switch (black knob switch comes with NO/NC contact block)
10250T21LB	63.00	H-O-A switch (black lever switch comes with 2 NO/2 NC contact blocks)
10250T23B	38.75	Start button (black flush button comes with NO contact block)
10250T25R	38.75	Stop button (red extended button comes with NC contact block)
10250T29	85.50	Emergency stop (red jumbo MRH button comes with NC contact block)

Ordering Example: 10250T29, emergency stop, \$85.50.



Thermocouple Terminal Blocks DIN Rail Mounting and Audit Capable

DRTB Series

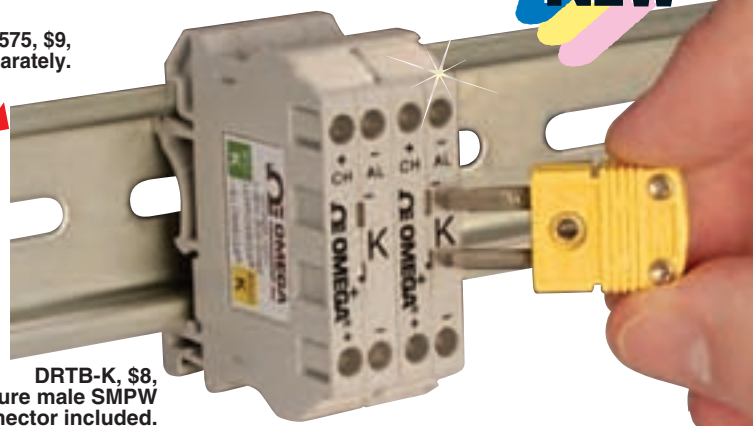
\$8



For Complete Details Visit omega.com/drtb

DRTB-RAIL-3575, \$9, sold separately.

PATENT PENDING



DRTB-K, \$8, miniature male SMPW connector included.

AVAILABLE FOR FAST DELIVERY!

- ✓ Screw Type Terminal for Secure and Maintenance Free Connections
- ✓ Type K, J, T, E, N, R/S and U Calibrations
- ✓ Built in Miniature Female Thermocouple Connector for Auditing and Troubleshooting
- ✓ DIN Rail Mountable—Narrow 10.7 mm Width
- ✓ Identified with Calibration and "+, -" Connections

To Order (Specify Model Number)

Model No.	Price	Description
DRTB-(*)	\$8	Thermocouple terminal block

* Specify thermocouple calibration: K, J, T, E, R/S, N or U. For IEC color coded product insert an "I" after the calibration letter.

** Specify thermocouple calibration: J, K, T or E.

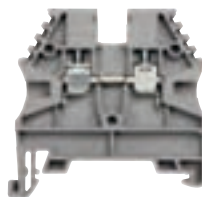
Ordering Example: DRTB-K, Type K thermocouple terminal block for DIN rail mounting, \$8.

DIN Rail Terminal Blocks Feed Through, Sensor, Ground and Fuse Styles

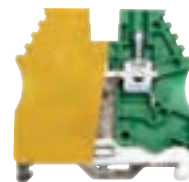
For Our Complete Selection Visit omega.com/terminal-blocks

- ✓ Screw or Tension Spring Connection
- ✓ Full Line of Accessories—End Plates, Cross Connectors and Marking Tags
- ✓ Electrical Ratings from 20 to 175 A
- ✓ Fuse Blocks with LED Blown Fuse Indicators

AVK Series Start at
\$0.48 ea
for package of 100



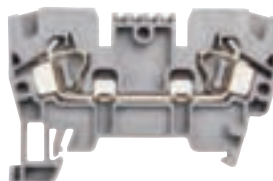
AVK-2.5 to AVK-10 feed through terminal block, AVK-2.5-50PK, \$30 pkg of 50.



AVK-2.5/4T-10PK ground terminal block, \$30 pkg of 10.

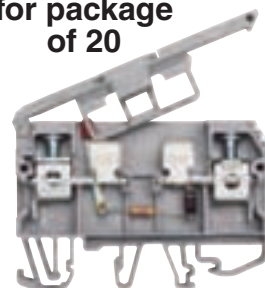
All models shown smaller than actual size.

YBK Series Starts at
\$0.56 ea
for package of 50



YBK-4-50PK, \$28 for package of 50.

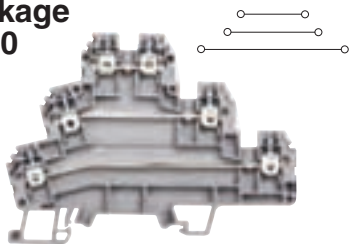
ASK T-BLOCK Series Starts at
\$2.30 ea
for package of 20



ASK-2LD-DC-10PK fuse terminal block with LED blown fuse indicator for 5 x 20 mm and 5 x 25 mm fuse, \$48 for pack of 10.

PIK/PUK Series Starts at
\$1.50

for package of 50



PUK-3-25PK three level feed through terminal, \$60 for pack of 25.



Standard Terminal Block Relays

XRU1D Series
Starts at
\$15



For Complete
Details Visit
[omega.com/
xru1d-relays](http://omega.com/xru1d-relays)

- ✓ Pluggable Relay Allows for Field Replacement
- ✓ Functional Plug-In Bridges
- ✓ Screw Connections
- ✓ LED Status Indication
- ✓ DIN Rail Mount
- ✓ Only 6.2 mm (0.24") Wide
- ✓ All Common Input Voltages Between 24 Vdc to 120 Vac
- ✓ NEMA 6 (IP67) Protection



XRU1D120U, \$21, shown smaller than actual size.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
XRU1D120U	\$21	1PDT relay, 120 Vac/110 Vdc coil voltage
XRU1D24	15	1PDT relay, 24 Vdc coil voltage
XRU1D24U	17	1PDT relay, 24 Vac/Vdc coil voltage

Ordering Examples: XRU1D120U, 1PDT relay 120 Vac/110 Vdc coil voltage, \$21.
XRU1D24, 1PDT relay, 24 Vdc coil voltage, \$15.

General Purpose "Ice Cube" Relays

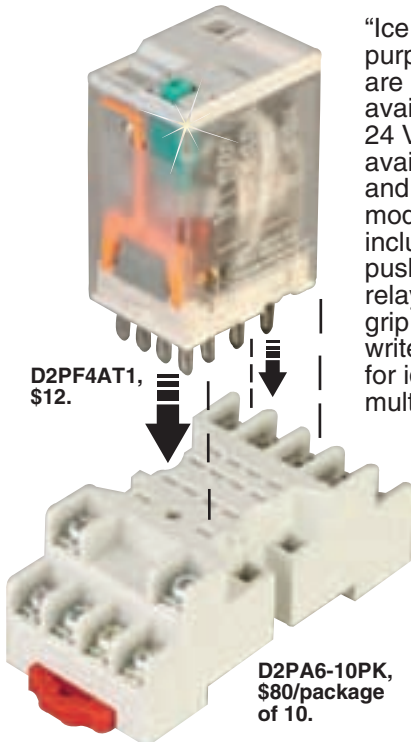
D2PF Series
Starts at
\$12

For Complete
Details Visit
[omega.com/
ice-cube-relays](http://omega.com/ice-cube-relays)

All models
shown smaller
than actual size.

D2PR Series
\$9
All Models

D3PF Series
Starts at
\$14



D2PF4AT1, \$12.

D2PA6-10PK, \$80/package of 10.

"Ice cube" relays are general purpose plug-in style relays that are extremely compact and are available with coil voltage of 24 Vdc and 120 Vac. They are available in both the spade base and 8 or 11 pin octal base. Some models have enhanced features including LED status lamp, push-to-test button for manual relay operation, convenient finger grip for relay removal and a write-on label that can be used for identification the relay in multiple relay circuits.



D2PR4A, \$9.



D3PF2AT, \$14.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model No.	Price	Description
D2PR4A	\$9	4PDT contact relay, 110 Vac coil
D3PF3AA	16	3PDT contact relay, 11 pin octal, 120 Vac coil, requires D3PA3 base, \$80/pkg of 10

Note: Bases sold separately and include hold down clip.

Ordering Examples: Ten D2PF4AT1, 4PDT 24 Vdc relays (10 x 12), \$120.
D3PF2AT, 2PDT 8-pin octal, 24 Vdc relay, \$14.

DIN Rail Fuse Holders

ASK Fuse Holder Series Starts at **\$4.25**



MEN10-10PK 10A fuses, \$26/pkg of 10.



For Complete Details Visit omega.com/fuse

ASK-6-11, \$19.

All models shown smaller than actual size.

- ✓ DIN Rail Mounted Fuse Holders
- ✓ 1, 2, and 3-Pole Models
- ✓ Models With Blown Fuse Indication
- ✓ 600V, 32 A (ASK 4)
- ✓ 600V, 50 A (ASK 6)

The ASK Series of DIN rail mounted fuse holders provides circuit protection for any industrial control system. Two standard fuse styles are supported: 14 x 51 mm (ASK 6) and (1.5 x 1¹³/₃₂") (ASK 4).

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
ASK-4-1	\$4.25	DIN rail fuse holder, 10 x 38 mm (0.39 x 1.50") fuses, 1 pole, no indicator light
ASK-4-11	10.00	DIN rail fuse holder, 10 x 38 mm (0.39 x 1.50") fuses, 1 pole, with indicator light
ASK-4-21	18.00	DIN rail fuse holder, 10 x 38 mm (0.39 x 1.50") fuses, 2 pole, with indicator light
ASK-6-1	8.00	DIN rail fuse holder, 14 x 51 mm (0.55 x 2.01") fuses, 1 pole, no indicator light
ASK-6-11	19.00	DIN rail fuse holder, 14 x 51 mm (0.55 x 2.01") fuses, 1 pole, with indicator light
ASK-6-31	59.00	DIN rail fuse holder, 14 x 51 mm (0.55 x 2.01") fuses, 3 pole, with indicator light

Ordering Examples: ASK-4-1, DIN rail mount fuse holder for 10 x 38 mm (0.39 x 1.50") fuses, 1 pole, \$4.25. ASK-6-31, DIN rail mount fuse holder for 14 x 51 mm (0.55 x 2.01") fuses, 3 pole, with indicator light, \$59.

Supplementary Protectors

WMS Series Starts at **\$25**



For Complete Details Visit omega.com/wms-series



WMS1C20SP, \$25.

WMS2C20SP, \$50.

WMS3C20SP, \$72.

All models shown smaller than actual size.

- ✓ 1, 2, 3 Pole Models
- ✓ 1 to 30 Amp Ranges
- ✓ 3 Different Trip Curves to Choose From
- ✓ CSA 22.2

Application Description
Cutler-Hammer supplementary protectors are ideal for providing protection in a multitude of applications, including:

- ✓ Motor control circuits
- ✓ Control power transformers
- ✓ Relays
- ✓ Contactor coils
- ✓ PLC I/O points
- ✓ Lighting circuits

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)						
1-Pole						
Ampere Rating	Model No. Curve B	Price	Model No. Curve C	Price	Model No. Curve D	Price
10	WMS1B10SP	\$25	WMS1C10SP	\$25	WMS1D10SP	\$25
15	WMS1B15SP	25	WMS1C15SP	25	WMS1D15SP	25
20	WMS1B20SP	25	WMS1C20SP	25	WMS1D20SP	25
30	WMS1B30SP	25	WMS1C30SP	25	WMS1D30SP	25

Ordering Example: WMS1B10SP, 1 pole 10 A supplementary protector trip curve B, \$25.



Visit omega.com/dilbert

for your daily dose of DILBERT!

DILBERT® by Scott Adams

Single-Phase DIN Rail Mount Solid State Relays
AC/DC Input; 25 and 40 A, 660 Vac Output

SSRDIN Series Starts at \$57



Visit omega.com/ssrdin

Hook-Up Wire
PVC Insulation—UL 1007/1569, CSA TR-64

HW3000 Series Starts at \$24
100' Spool



Visit omega.com/hw3000

Definite Purpose Contactors

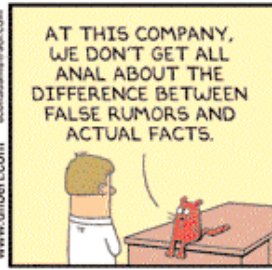
C25 Series Starts at \$26.50



Visit omega.com/c25



ALICE IS SPREADING FALSE RUMORS ABOUT ME. SHE'S TRYING TO MAKE ME QUIT.



AT THIS COMPANY, WE DON'T GET ALL ANAL ABOUT THE DIFFERENCE BETWEEN FALSE RUMORS AND ACTUAL FACTS.

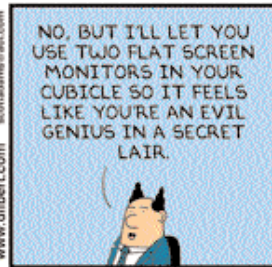


THAT'S NOT FAIR!

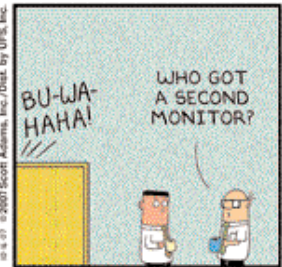
SAID THE ALLEGED POACHER OF ENDANGERED SPECIES.



MY PAY IS BELOW MARKET. CAN I HAVE A 20% RAISE?



NO, BUT I'LL LET YOU USE TWO FLAT SCREEN MONITORS IN YOUR CUBICLE SO IT FEELS LIKE YOU'RE AN EVIL GENIUS IN A SECRET LAIR.



BU-WA-HAHA!

WHO GOT A SECOND MONITOR?



WHY DOES DILBERT GET TWO COMPUTER MONITORS WHILE I ONLY GET ONE?!



WELL, ACCORDING TO RESEARCHERS, IT'S BECAUSE MEN TEND TO NEGOTIATE AND WOMEN DON'T.

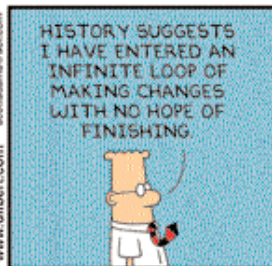


SO, WHAT HAPPENS NOW?

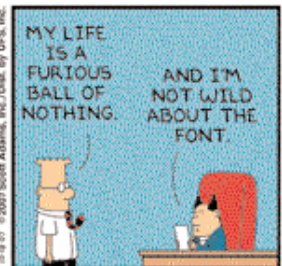
IF I HAD TO GUESS, I'D SAY MORE COMPLAINING.



MAKE THESE CHANGES AND RUN IT BY ME AGAIN.



HISTORY SUGGESTS I HAVE ENTERED AN INFINITE LOOP OF MAKING CHANGES WITH NO HOPE OF FINISHING.



MY LIFE IS A FURIOUS BALL OF NOTHING.

AND I'M NOT WILD ABOUT THE FONT.



THIS WEEK I INCREASED MY PRODUCTIVITY BY IMPROVING MY MORALE.



I WATCHED FUNNY YOUTUBE VIDEOS FROM MORNING UNTIL DUSK.



THAT'S ALL YOU DID?

DON'T WORRY, I'M ALMOST HALFWAY DONE.

Dilbert © United Feature Syndicate

Non-Metallic Fiberglass Enclosures NEMA 4X (IP66) Fiberglass JIC Size Junction Boxes with Factory Installed Mounting Flanges

OM-AMU Series
Starts at
\$56



- ✓ Suited for Higher Temperatures or Corrosive Environments
- ✓ Protect Controls and Components Indoors or Outdoors
- ✓ UL 94 Flammability Rating
- ✓ UV Stabilized for Outdoor Use
- ✓ 304 SS Hardware and Continuous Hinge
- ✓ Multiple Cover Options— Raised or Clear Polycarbonate

Specifications

Service Temperature Rating: -35 to 130°C (-31 to 266°F)



OM-AMU1426LWF raised front fiberglass enclosure with stainless steel hinge, padlocking snap latch, viewing window and mounting flange, \$190.

OM-AMU1084TCCF fiberglass enclosure with molded-in hinge, clear polycarbonate window and padlocking twist latch, \$98. Shown with OM-HFPU108, front dead panel sold separately, \$43.50.

All models shown much smaller than actual size.



Standards: UL Types 1, 2, 3, 4, 4x, 12 and 13; CSA Types 1,2,3,3R, 4 4X, 12 and 13; NEMA Types 1, 2, 3, 3R, 4, 4X, 12 and 13; IEC Type IP66

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Screw Closure Models

Models Without Hinges	Price	Models With Hinges	Price	Dimensions (inches)		
				Height	Width	Depth
OM-AMU664F	\$56	OM-AMU664HF	\$61	6	6	4
OM-AMU1084F	62	OM-AMU1084HF	68	10	8	4
OM-AMU2060WF	377	OM-AMU2060HWF	378	20	16	10

Padlocking Latch Closure Models

Models With Snap Latches	Price	Models With Twist Latches	Price	Dimensions (inches)		
				Height	Width	Depth
OM-AMU1084LCCF	\$98	OM-AMU1084TCCF	\$98	10	8	4
OM-AMU1206LCCF	117	OM-AMU1206TCCF	117	12	10	6
OM-AMU1426LWF	190	OM-AMU1426TWF	190	14	12	6

Note: "W" indicates models with viewing window, "CC" indicates clear polycarbonate cover.

Ordering Example: OM-AMU664F, solid cover fiberglass enclosure 6 H x 6 W x 4" D with factory installed mounting flange, \$56.

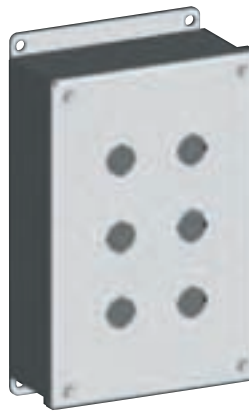
Enclosures



NEMA 4 Enviroline® Series enclosures.



NEMA 12 free standing two-door enclosures.



NEMA 12 pushbutton enclosures.

Too Many to Show Here!
For Complete Selection Visit omega.com/nema_enclosures

All models shown much smaller than actual size.



NEMA 12 consoles.

NEMA 12 Continuous Hinge Enclosures

Starts at
\$37



For Complete Selection Visit omega.com/wall-mount-enclosures



- ✓ 0.075" Carbon Steel
- ✓ Seams Continuously Welded and Ground Smooth, No Holes or Knockouts
- ✓ External Screw Clamps are Quick and Easy to Operate

- ✓ Oil Resistant Gasket
- ✓ Standoffs Provided for Mounting Optional Panels
- ✓ Ground Stud on Door

SCE-1210CH, \$82, shown much smaller than actual size.

Visit omega.com/sce_conthinge for details on this series.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)									
Enclosures		Dimensions: (in)			Sub-Panel		Dimensions: (in)		
Model No.	Price	Height	Width	Depth	Model No.	Price	Height	Width	
SCE-404CH	\$37	4.00	4.00	3.00	No Panel	—	—	—	
SCE-8066CH	60	8.00	6.00	6.00	SCE-8P6	\$4	6.75	4.88	
SCE-10086CH	73	10.00	8.00	6.00	SCE-10P8	5	8.75	6.88	
SCE-1210CH	82	12.00	10.00	5.00	SCE-12P10	8	10.75	8.88	
SCE-1210CHS	82	12.00	10.00	5.00	SCE-12P10	8	10.75	8.88	
SCE-1412CH	104	14.00	12.00	6.00	SCE-14P12	10	12.75	10.88	
SCE-1614CH	122	16.00	14.00	6.00	SCE-16P14	20	14.75	12.88	

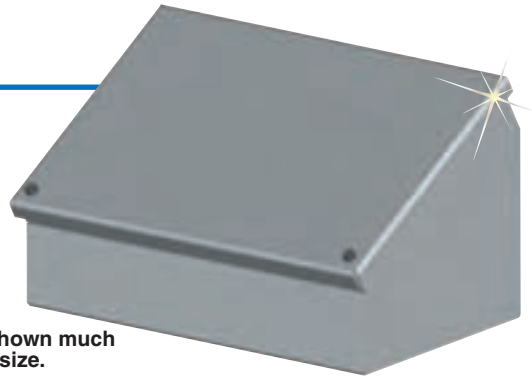
Note: Model numbers ending in "S" are hinged on the width dimension.
Ordering Example: SCE-404CH, 4 x 4 x 3" enclosure, \$37.

NEMA 12 Consolets

Starts at
\$105



For Complete Selection Visit omega.com/operator-consoles



SCE-12C16, \$151, shown much smaller than actual size.

MOST POPULAR MODELS LISTED!

- ✓ 0.075" Carbon Steel
- ✓ Seams Continuously Welded and Ground Smooth, No Holes or Knock-Outs
- ✓ Captivated Cover Screws Thread into Sealed Wells
- ✓ Door Attached with Continuous Hinge
- ✓ Oil-Resistant Gasket
- ✓ Ground Stud on Door
- ✓ May Also Be Ordered in Type 304 and Type 316 Stainless Steel*

To Order (Specify Model Number)					
Model No.	Price	Door (in)	Width (in)	Height (in)	Depth (in)
SCE-8C8	\$105	8.00	8.00	7.09	7.44
SCE-12C12	136	12.00	12.00	9.09	10.91
SCE-12C16	151	12.00	16.00	9.09	10.91
SCE-16C16	177	16.00	16.00	11.09	14.38
SCE-16C20	194	16.00	20.00	11.09	14.38
SCE-16C24	212	16.00	24.00	11.09	14.38
SCE-20C20	223	20.00	20.00	13.09	17.84
SCE-20C24	248	20.00	24.00	13.09	17.84
SCE-20C30	237	20.00	30.00	13.09	17.84

Visit omega.com/sce_console for details on this series.

Ordering Example: SCE-8C8, consolet with 8 x 8" door, \$105.
* Consult Omegamation Sales for ordering information.



Solenoid Valve Island

VM10 Series
Starts at
\$550

For Complete Details Visit omega.com/vm10_series



VM10; 12-valve station, shown smaller than actual size.

- ✓ 4-Way Directional Control Valves
- ✓ 2-Way Solenoid Valves
- ✓ 24 Vdc Operation
- ✓ Stock and Custom Made to Order Configurations

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Pre Configured Valve Stations		
Model No.	Price	Description
OM-AIR-VM1052140602	\$550	4-way NC directional control valve bank, 6 stations with 2 blanks
OM-AIR-VM1032140402	525	2-way NC valve bank, 4 stations with 2 blanks, 2 valves per station, 8 valves total

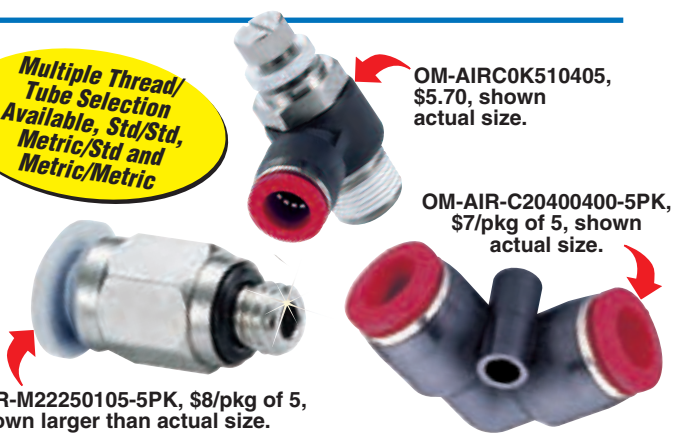
Note: Prices vary according to options, call for details.
Ordering Example: OM-AIR-VM1052140602, 4-way NC directional control valve bank, 6 stations with 2 blanks, \$550.

Push-to-Connect Pneumatic Airline Fittings

OM-AIR Series
Starts at
\$5.70

For Complete Details Visit omega.com/airline-fittings

Multiple Thread/Tube Selection Available, Std/Std, Metric/Std and Metric/Metric



OM-AIRC0K510405, \$5.70, shown actual size.

OM-AIR-C20400400-5PK, \$7/pkg of 5, shown actual size.

OM-AIR-M22250105-5PK, \$8/pkg of 5, shown larger than actual size.

- ✓ Releasable Stainless Steel Grab Ring
- ✓ Nickel Plated Brass Components
- ✓ Quality Sealing Using Silicone Free U-Packing

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)			
Model No.	Price	Tube OD	Description
OM-AIR-C24250210-5PK	\$7.00	4 mm (5/32")	Male straight adaptor with 10-32 thread, pkg of 5
OM-AIR-C0K510405	5.70	4 mm (5/32")	Flow control valve regulating out with M5 thread
OM-AIR-C20400400-5PK	7.00	1/4"	Elbow union, pkg of 5
OM-AIR-T51P0006	13.20	6 mm	In-line non-return valve
OM-AIR-M22250105-5PK	8.00	1/8"	Miniature male straight adaptor with M5 thread, pkg of 5

Ordering Example: OM-AIR-C20400400-5PK, elbow union for use with 1/4" tubing, \$7/pkg of 5.

OMEGAFLEX® Polyurethane, 95A Shore Durometer, Ether-Based

TYUTH95 Series
Starts at
\$7

For a Complete List of Available Sizes, Including Metric, Visit omega.com/tyuth95



MOST POPULAR MODEL LISTED!

To Order (Specify Model Number)								
Model No.	Price	Standard Coil Length	OD	ID	Dia. Tol.	Wall	Working psi @ 24°C (75°F)	Weight lb
TYUTH95-532332-100	\$15	100'	0.156"	0.094"	±0.005"	0.031"	210	0.62
TYUTH95-18066-50	7	50'	0.156"	0.066"	±0.005"	0.030"	255	0.22

Standard color is natural (clear). See Color Option Table for color availability and ordering codes.
Ordering Example: TYUTH95-18066-50-BLK, 50 feet of black tubing, 0.156" OD x 0.066" ID, ether-based polyurethane tubing with working pressure of 255 psi, \$7.



Norgren Excelon® Modular Filter/Regulators

B72G Series Starts at \$**65**⁵⁰

For Our Complete Selection Visit omega.com/air-prep

- ✓ In-Line or Modular Installation
- ✓ High Efficiency Water and Particle Removal
- ✓ Quick Release Bayonet Bowl
- ✓ Push to Lock Adjusting Knob with Tamper Resistant Accessory
- ✓ Patented Quarter Turn Manual Drain or Automatic Drain

Specifications

Fluid: Compressed air

Maximum Pressure:

Transparent Bowl: 10 bar (150 psig)

Metal Bowl: 17 bar (250 psig)

B72G with Metal Bowl and

Auto Drain: 10 bar (150 psig)

Operating Temperature*:

Transparent Bowl: -34 to 50°C (-30 to 125°F)

Metal Bowl: -34 to 80°C (-30 to 175°F)



B72G-2AK-AE3-RMG, \$87.50.



B73G-3AK-AD3-RMG, \$129.



B74G-4AK-AD3-RMG, \$148.

All models, shown smaller than actual size.

* Air supply must be dry enough to avoid ice formation at temperatures below 2°C (35°F).

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model No.	Price	µm Element	Flow SCFM† (DM³/S)	Drain	Description
B72G-2AK-QD1-RMG	\$65.50	5	80 (38)	Manual	Filter/regulator with ¼ NPT ports
B72G-2AK-QD3-RMG	65.50	40	80 (38)	Manual	Filter/regulator with ¼ NPT ports
B72G-2AK-AE3-RMG	87.50	40	80 (38)	Auto	Filter/regulator with ¼ NPT ports
B73G-3AK-QD1-RMG	97.50	5	123 (58)	Manual	Filter/regulator with ⅜ NPT ports
B73G-3AK-AD1-RMG	129.00	5	123 (58)	Auto	Filter/regulator with ⅜ NPT ports
B73G-3AK-AD3-RMG	129.00	40	123 (58)	Auto	Filter/regulator with ⅜ NPT ports
B73G-3GK-AD3-RMG	129.00	40	123 (58)	Auto	Filter/regulator with ⅜ G ISO ports
B74G-4AK-QD3-RMG	117.25	40	212 (100)	Manual	Filter/regulator with ½ NPT ports
B74G-4AK-AD3-RMG	148.00	40	212 (100)	Auto	Filter/regulator with ½ NPT ports

Accessories

Model No.	Price	Description
OM-AIR-74316-50	\$7.00	Neck mounting bracket for B72G models
OM-AIR-4324-50	9.25	Wall mounting bracket for B74G models
OM-AIR-5925-02	6.00	40 µm replacement element for B72G models
OM-AIR-4438-03	7.50	5 µm replacement element for B73G models
OM-AIR-18-013-209	13.00	Replacement gauge for B73G and B74G models, 0 to 160 psi (11 bar)

Notes: Models listed include PTF threads, knob adjustment, metal bowl with liquid level indicator, relieving diaphragm, 0.3 to 10 bar (5 to 150 psig) outlet pressure adjustment range** with gage.

** Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

† Typical flow with 10 bar (150 psig) inlet pressure, 6.3 bar (90 psig) set pressure and a 1 bar (15 psig) droop from set.

Ordering Examples: B72G-2AK-AE3-RMG, filter/regulator with ¼" port, flow of up to 80 scfm, metal bowl with liquid level indicator, knob adjustment and PTF threads, \$87.50. B73G-3AK-AD3-RMG, filter/regulator with ⅜" port, flow up to 123 scfm, metal bowl with liquid level indicator, knob adjustment and PTF threads, \$129.

Air Preparation Products

For Compressed Air Systems

In-Line or Modular Installation for Complete System

Select Components to Build a Complete Air Preparation Modular Unit.



Oil Removing (Coalescing) Filters

F72C-2AD-AE0

\$95



F72C-2AD-AE0, \$95.



All models shown smaller than actual size.

- ✓ High Efficiency Oil and Particle Removal
- ✓ Standard Visual Service Life Indicator Turns from Green to Red When the Filter Element Needs to be Replaced

- ✓ Quick Release Bayonet Bowl
- ✓ Modular Installations with Excelon 72, 73 and 74 Series Can be Made to Suit Particular Applications

For Our Complete Selection Visit omega.com/air-prep

F73C-3AD-AD0, \$131.

Lockout Valves

T72T-2AA-P1N

\$33



T72T-2AA-P1N, \$33, shown smaller than actual size.

- ✓ Valves can be Locked in the Closed Position Only
- ✓ Excelon® 3-Port/2-Position Lockout Valves Help Conform to OSHA Lockout Regulations in USA Market

Pressure Relief Valves

V72G-2AK-NMG

\$50



V72G-2AK-NMG, \$50, shown smaller than actual size.

- ✓ Push to Lock Adjusting Knob with Tamper Resistant Accessory
- ✓ Helps Protect Air Operated Equipment from Over Pressure by Retarding Excessive Pressure Build Up

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model No.	Price	Description
V72G-2AK-NMG	\$50	Pressure relief valve with 1/4" port, 0.3 to 10 bar (5 to 150 psig)
V74G-4AK-NMG	78	Pressure relief valve with 1/2" port, 0.3 to 10 bar (5 to 150 psig)
F72C-2AD-AE0	95	Oil removing (coalescing) filter with 1/4" port
F73C-3AD-AD0	131	Oil removing (coalescing) filter with 3/8" port
F74C-4AD-AD0	164	Oil removing (coalescing) filter with 1/2" port
T72T-2AA-P1N	33	3-port/2-position 1/4" ported lockout valve
T74T-4AA-P1N	47	3-port/2-position 1/2" ported lockout valve

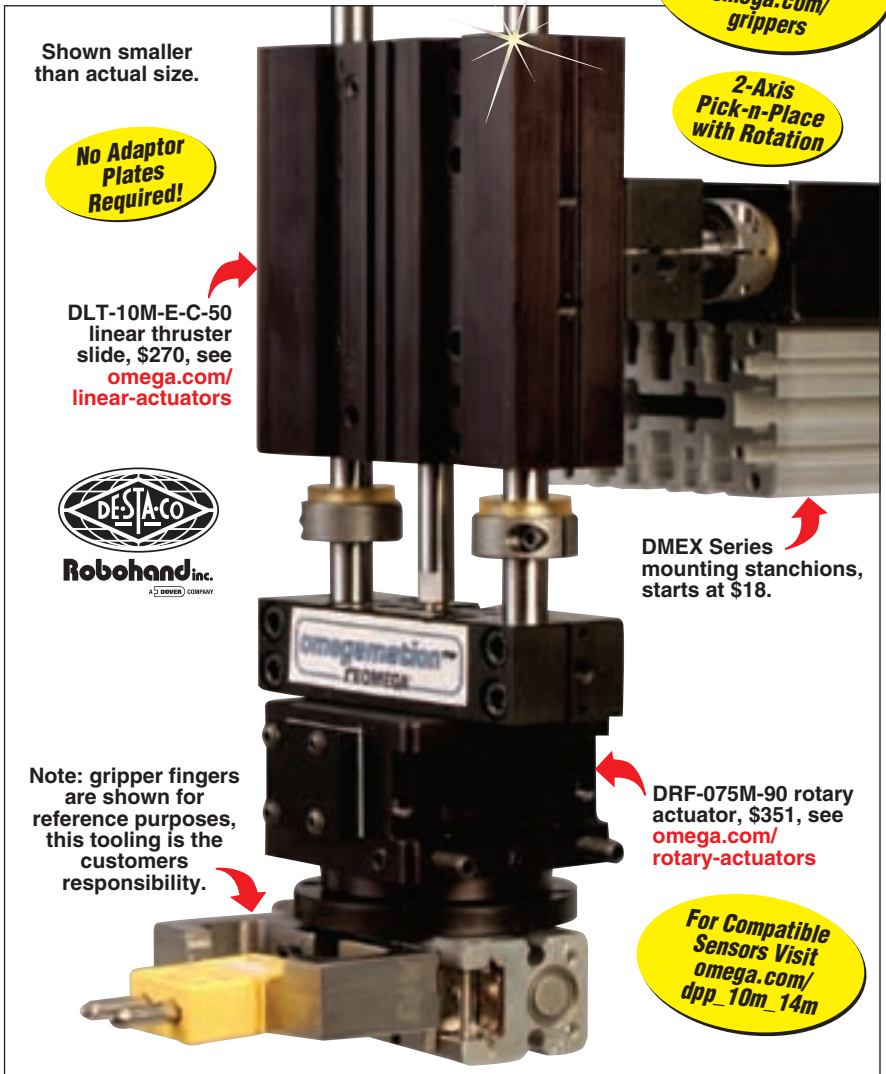
Ordering Examples: V72G-2AK-NMG, pressure relief valve with 1/4" port, PTF threads, 5 to 150 psig adjustment range, with pressure gauge, \$50. F74C-4AD-AD0, coalescing filter (oil removing) with 1/2" port, service indicator, automatic drain and PTF threads, \$164.

Pneumatic Precision Parallel Movement DPP DirectConnect™ Series Grippers

DPP Series Starts at **\$365**



- ✓ Precision Gripping—Preloaded V Roller Bearing Eliminate Side Play Resulting in Excellent Part Positioning
- ✓ Accuracy of ±0.03 mm (0.001") and Repeatability of ±0.01 mm (0.0004")
- ✓ Highly Configurable Modular Automation—Exclusive Direct Connect™ Technology Provides Multiple Mounting Options
- ✓ Multiple Pneumatic Port Locations—Tapped Ports on Front, Top and Both Sides are Standard
- ✓ Rigid and Low Friction Design Provides Longer Gripper Finger Lengths and the Ability to Handle Delicate Parts
- ✓ Non Synchronous Motion Option Provides Independent Jaw Motion
- ✓ Up to 5 Million Cycles in Typical Application—Up to 10 Million with Maintenance
- ✓ Temperature Operating Range -35 to 80°C (-31 to 176°F)



Shown smaller than actual size.

No Adaptor Plates Required!

DLT-10M-E-C-50 linear thruster slide, \$270, see omega.com/linear-actuators



For Our Complete Selection Visit omega.com/grippers

2-Axis Pick-n-Place with Rotation

DMEX Series mounting stanchions, starts at \$18.

Note: gripper fingers are shown for reference purposes, this tooling is the customers responsibility.

DRF-075M-90 rotary actuator, \$351, see omega.com/rotary-actuators

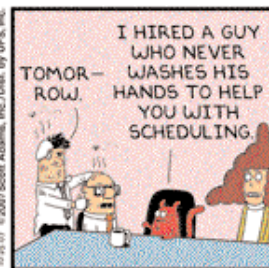
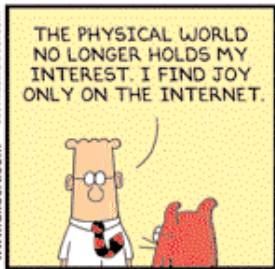
For Compatible Sensors Visit omega.com/dpp_10m_14m

- ✓ System Requires 0.3 to 7 bar (5 to 100 psi) Dry Filtered (40 Micron or Better) Air Supply
- ✓ Accessory Equipment Required— 4-Way, 2 Position Pneumatic Directional Control Valve

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)									
Model No.	Price	Dimensions: mm (in)						Grip Force N (lb)	Weight kg (lb)
		Jaw Lgth Closed	Jaw Lgth Open	Body Depth	Body Lgth	Body Height	Max Stroke		
DPP-10M-06	\$365	47 (1.85)	53 (2.10)	25 (0.98)	63 (2.47)	35 (1.36)	6.4 (0.25)	111(25)	0.16 (0.35)
DPP-10M-12	415	49 (1.93)	62 (2.43)	25 (0.98)	74 (2.90)	35 (1.36)	12.7 (0.50)	111(25)	0.20 (0.45)
DPP-14M-15	450	63 (2.47)	79 (3.10)	34 (1.34)	90 (3.55)	42 (1.66)	15.9 (0.63)	200 (45)	0.48 (1.05)
DPP-14M-25	525	82 (3.23)	107 (4.23)	34 (1.34)	119 (4.67)	42 (1.66)	25.4 (1.00)	200 (45)	0.57 (1.25)

All models come standard with synchronous jaws, if non synchronous is required, consult sales.
 * All models with the "-C" option have a spring assist closing mechanism on the jaws to provide fail safe closing and additional gripping force.
Ordering Example: DPP-14M-25, pneumatically powered precision gripper with DirectConnect easy mounting technology, 25.4 mm (1") jaw stroke and 200 N (45 lb) of gripping force, \$525.



Dilbert © United Feature Syndicate

Parallel Pneumatic Grippers Miniature Series Designed for Manifold Mounting

RPM Series
Starts at
\$347

Visit
omega.com/rpm_series



Inline Directional Control Valves

V60 Series
Starts at
\$44

Visit
omega.com/v60_series



Angular Pneumatic Grippers 180° Series DIRECTCONNECT™

DCT Series
Starts at
\$472



Visit
omega.com/dct_series

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in Products for **Sanitary** Applications

DILBERT *New Horizons*®
in Products for **Sanitary** Applications

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- Data Loggers • Enclosures • Laboratory Instruments • Components

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Version No. 27

Includes 85 Dilbert Cartoons

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ΩOMEGA

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A Selection of Our Most Popular Products

Sanitary RTD Probes Standard Duty with M12 Connector

PRS-S-M12 Series

\$110
All Models



Provides Quick and Easy Installation in CIP and Sanitary Processes

For Complete Details Visit omega.com/prs-3-100-m12



- ✓ Standard Duty 1/4" Probe Diameter
- ✓ 1 1/2" 16 AMP Tri-Grip™ (Tri-Clamp® Compatible) Fitting Standard
- ✓ 4-Wire M12 Male Connector Standard
- ✓ 316L SS Wetted Surfaces with 32 µin or Better Finish
- ✓ 4-Wire Pt100 Class A Element Standard
- ✓ -50 to 200°C (-58 to 392°F) Temperature Range



Sanitary RTD Probes Standard Duty with Integral Cable

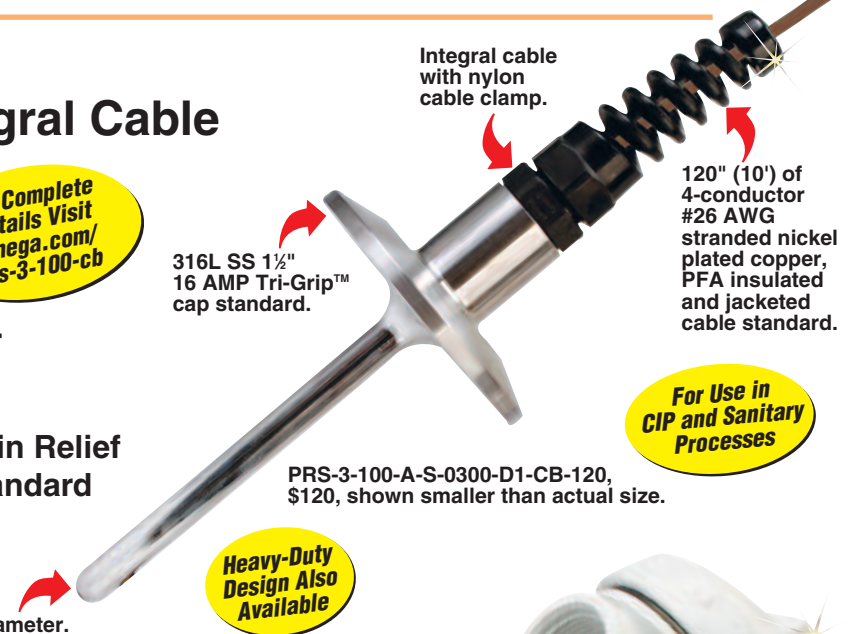
PRS-S-CB-120 Series

\$120
All Models



For Complete Details Visit omega.com/prs-3-100-cb

- ✓ Standard Duty 1/4" Probe Diameter
- ✓ 1 1/2" 16 AMP Tri-Grip™ (Tri-Clamp® Compatible) Fitting Standard
- ✓ 10' PFA Insulated Cable with Strain Relief
- ✓ 4-Wire Pt100 Class A Element Standard
- ✓ 316L SS Wetted Surfaces with 32 µin or Better Finish
- ✓ -50 to 200°C (-58 to 392°F) Temperature Range



Sanitary RTD Assemblies Heavy-Duty with Protection Head

PRS-H-NB9W Series

\$125
All Models



For Complete Details Visit omega.com/prs-nb9w

- ✓ Heavy-Duty Probe Design with Stepped Probe Stem for Additional Strength
- ✓ 1 1/2" 16 AMP Tri-Grip™ (Tri-Clamp® Compatible) Fitting Standard
- ✓ White Polypropylene Head with Screw Cap Standard
- ✓ 316L SS Wetted Surfaces with 32 µin or Better Finish
- ✓ 4-Wire Pt100 Class A Element Standard
- ✓ -50 to 200°C (-58 to 392°F) Temperature Range





Sanitary Temperature Sensors and Accessories

- ✓ Includes Direct Immersion and Spring Loaded Thermowell Varieties
- ✓ Connection Head, M12 Connector and Flying Lead Style Connection Options
- ✓ Available as RTDs, Thermistors or Thermocouples
- ✓ 1½" 16 AMP Tri-Grip™ Flange Standard, Other Sizes Also Available

- ✓ 316L Stainless Steel Housings
- ✓ Standard Duty ¼" Diameter or Heavy Duty, Stepped ⅜ to ⅝" Diameter, Probe Stems Available
- ✓ -80 to 150°C (-112 to 302°F) Thermistor or -50 to 200°C (-58 to 392°F) RTD and Thermocouple Temperature Range
- ✓ 4 to 20 mA and Wireless Transmitters and Accessories

NB9W Style

74-03

PRS-3-100-A-S-0300-D1-NB9W, \$95, shown smaller than actual size.

Cable Bushing Style

74-03

PRS-3-100-A-S-0300-D1-CB-120, \$120, shown smaller than actual size.

M12 Style

74-03

PRS-3-100-A-S-0300-M12, \$110, shown smaller than actual size.

For Our Complete Selection of OMEGA's Sanitary Sensors and Accessories Visit omega.com/vhsa

Spring Loaded with NB9W Head and Thermowell

74-03

PRS-3-100-A-TW-0250-D1-NB9W, \$195, shown smaller than actual size.

Thermowells

74-03

1 1/2-S-260-U7 1/2-316SS, \$170, shown smaller than actual size.

Spring Loaded With M12 Connector and Thermowells

74-03

PRS-3-100-A-TW-0250-D1-M12, \$195, shown smaller than actual size.

Transmitter with Extension Cable

Female M12

SPRTX-SS1-M12, \$95, shown smaller than actual size.

Extension Cable

M12C-PVC-4-S-F-10, \$18.50, shown smaller than actual size.

Wireless Transmitter

UWRTD-S-2, \$275, shown smaller than actual size.

Transmitter with SST Housing

TX94A-SS-M12F-1, \$195, shown smaller than actual size.

Sanitary RTD Assemblies Standard Loaded Design with Sanitary Thermowell

PRS-TW-NB9W
Series
Starts at
\$180



For Complete
Details Visit
[omega.com/
prs-3-100-tw](http://omega.com/prs-3-100-tw)

PRS-3-100-A-TW-0250-D1-NB9W,
\$195, shown smaller than actual size.

- ✓ Removable Spring Loaded Probe in Well for Good Thermal Response
- ✓ 1½" 16 AMP Tri-Grip™ (Tri-Clamp® Compatible) Fitting

Sanitary RTD Assemblies Standard Loaded Design with Sanitary Thermowell



PRS-TW-M12
Series
Starts at
\$180



For Complete
Details Visit
[omega.com/
prs-3-100-tw-m12](http://omega.com/prs-3-100-tw-m12)

PRS-3-100-A-TW-0250-D1-M12,
\$195, shown smaller
than actual size.

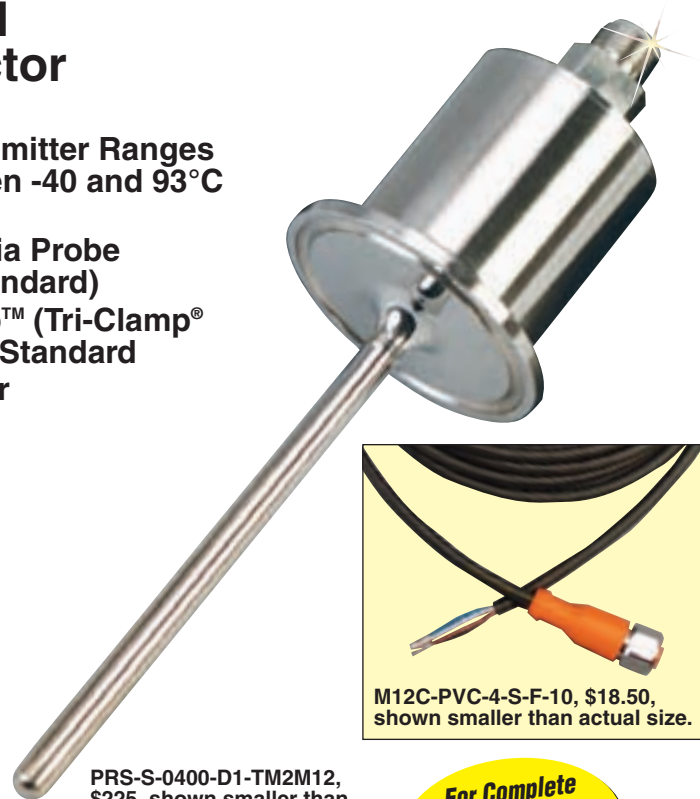
- ✓ Removable Spring Loaded Probe in Well for Good Thermal Response
- ✓ 1½" 16 AMP Tri-Grip™ (Tri-Clamp® Compatible) Fitting

Sanitary Probes with Integral Transmitter and M12 Connector

PRS-S-TMM12
Series
\$225
All Models



- ✓ Two Available Transmitter Ranges (4 to 20 mA) Between -40 and 93°C (-40 to 200°F)
- ✓ Standard Duty ¼" Dia Probe (3 to 6" Lengths Standard)
- ✓ 1½" 16 AMP Tri-Grip™ (Tri-Clamp® Compatible) Fitting Standard
- ✓ Male M12 Connector



M12C-PVC-4-S-F-10, \$18.50,
shown smaller than actual size.

PRS-S-0400-D1-TM2M12,
\$225, shown smaller than
actual size.

For Complete
Details Visit
[omega.com/
prs_tmm12](http://omega.com/prs_tmm12)

Heavy-Duty Design

PRS-H-TMM12
Series
\$250
All Models



PRS-H-0300-D1-TM2M12, \$250,
shown smaller than actual size.



RTD Sensor with M12 Connector for Process Control and Test and Measurement Applications

PR-21 Series
Starts at
\$60

PR-21B-3-100-A-1/4-0600-M12-1,
\$70.



For Complete
Details Visit
omega.com/pr-21

PR-21A-3-100-A-1/4-0600-M12-1,
\$60.

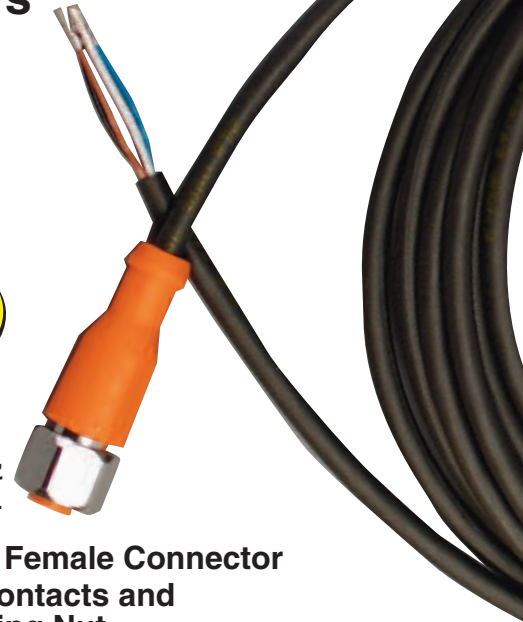
- ✓ All Welded 316L Stainless Steel Housing
- ✓ Available With or Without Mounting Thread (1/4, 3/8 and 1/2 NPT, M8 x 1 or M10 x 1 Mounting Threads Available)

Cable Assemblies for Probes, Sensors and Transmitters

M12C Series
Starts at
\$13⁵⁰

For Complete
Details Visit
omega.com/m12c

M12C-PUR-4-S-F-5,
\$16.50, shown smaller
than actual size.



- ✓ Standard M12 Female Connector
- ✓ Gold Plated Contacts and 316 SS Mounting Nut
- ✓ PVC or Polyurethane Jacket/Insulation
- ✓ Available in 2, 5 and 10 m (6.5, 16.4, 32.8') Lengths
- ✓ Straight or Right Angle Connection
- ✓ Stripped Lead Termination at Cable End

Connector/Transmitter For Sanitary Pt100 Probes with M12 Connector Splash-Proof Body and Integral Cable

The Smart Connector™



SPRTX-SS Series
\$95
All Models

SPRTX-SS1-M12, \$95,
shown smaller than
actual size.



Optional

For Complete
Details Visit
omega.com/sprtx-ss

- ✓ Miniature Design Attaches Directly to Pt100 Sensors with M12 Connector
- ✓ 2-Wire, 4 to 20 mA Output
- ✓ ±0.5% FS Accuracy
- ✓ Upscale Break Protection
- ✓ Encapsulated Signal Conditioner with Water Tight Connector Housing
- ✓ Integral 4 m (12') Cable with Stripped Leads on One End

RTD Temperature Transmitter 316 Stainless Steel Construction Ideal for Wash-Down, Outdoor, Sanitary, or Marine Environments



Optional

TX94A-SS Series
\$195
All Models

TX94A-SS,
transmitter,
\$195, shown
smaller than
actual size.



For Complete
Details Visit
omega.com/tx94a-ss

- ✓ Splash-Proof 316 SS Housing with NEMA 4 (IP67) Rating
- ✓ Compact Design Attaches Directly to Pt100 Sensors with M12 Connecting Cable
- ✓ 2-Wire, 4 to 20 mA Output
- ✓ ±0.1% FS Accuracy
- ✓ Zero and Span Adjustments
- ✓ Upscale Break Protection



Digital RTD Thermometer 316 SS Enclosure for Sanitary, Wash-Down, and Marine Applications

DTG-RTD100 Series
Starts at
\$395



Thermocouple Models Available. For Complete Product Information Visit omega.com/dtg-tc100

- ✔ Large Multicolor Backlit Display with 25 mm (1") Digits Readable From Over 10.7 m (35')
- ✔ Up to $\pm 0.2^{\circ}\text{C}$ ($\pm 0.3^{\circ}\text{F}$) or $\pm 0.1\%$ Rdg Accuracy
- ✔ Connects Directly to 3-Wire Pt100 RTD Sensors
- ✔ User Scaleable 4 to 20 mA, 0 to 5 or 0 to 10 Vdc Analog Output Standard
- ✔ Powered by Internal Battery or External DC Power Supply
- ✔ Included Setup and Service Software Allows for Fast Maintenance and Calibration via USB Connection
- ✔ Wireless Transmitter Option Sends Readings to Remote Locations and Allows for PC-Based Chart Recording and Data Logging
- ✔ Low Power Operation and Sleep Mode for Long Battery Life

Magnetic stylus (included).

Antenna connection for wireless option.

For Complete Details Visit omega.com/dtg-rtd100

Available with Built-In Wireless Transmitter Option

DTG-RTD100-PRS-3-100-AS-300-D1-W, \$590, smaller than actual size.



Wireless RTD Probe/ Transmitter Assembly For Use in Sanitary Applications

UWRTD-NB9W Series
Starts at
\$265



- ✔ Transmit Temperature Data Wirelessly to Your Computer or the Internet
- ✔ Complete Industrial Assembly—Includes Probe, Transmitter Housing/Head, Integral Wireless Transmitter and Long Life Battery
- ✔ Available with 3-A Approved Thermowells for Clean-in-Place (CIP) Applications
- ✔ Transmit up to 120 m (400')
- ✔ Included Software Converts a PC into a Multi-Channel Chart Recorder or Data Logger
- ✔ Each Wireless Connector Transmits Sensor Temperature, Ambient Temperature, Signal Strength and Battery Status in Real Time

For Complete Details Visit omega.com/uwrtd-nb9w

Another Sani-Fit™ Product from OMEGA

FCC/Industry Canada Approved

Wireless Head Assembly Available with Tri-Grip™ Sanitary Flange Sensors

UWRTD-NB9W-1PT316-14-4-B, \$390, shown smaller than actual size.

Available with or without 3-A thermowell. Wells also available separately, see bottom of page 35.



SANITARY



Visit omega.com/dilbert
for your daily dose of DILBERT!

DILBERT® by Scott Adams

Micro-DC Cable Assemblies
For Probes, Sensors and Transmitters

Highly flexible polyurethane cables for Automation applications.

M12C Series Starts at **\$13⁵⁰**

Rugged PVC jacketed cables for wash-down applications.

Visit omega.com/m12c

Sanitary RTD Probes
Standard Duty with M12 Connector

PRS-S-M12 Series All Models **\$110**



Visit omega.com/prs-3-100-m12

MADE IN **USA**

Sanitary Process Transducers
Using Micro-Machined Silicon Technology
10 mV, 0 to 5 Vdc, 4 to 20 mA Outputs

Visit omega.com/px409s

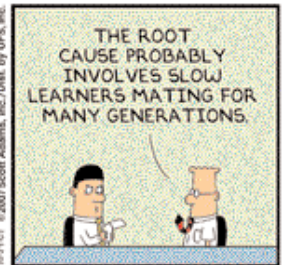
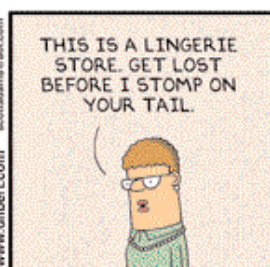
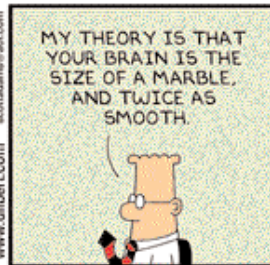
Twist-lock style.

PX409S Tri-Grip™ Sanitary Series Starts at **\$585**

MADE IN **USA**



mini DIN style.



Dilbert © United Feature Syndicate

Sanitary Dial Thermometers

Starts at
\$233



- ✓ All 316/316L SS Wetted Parts
- ✓ All Welded Construction
- ✓ Easy to Calibrate Reset Screw
- ✓ 3-A Certified Design
- ✓ Hermetically Sealed
- ✓ 32 Ra Max on All Wetted Surfaces
- ✓ Standard Connection: 1½" Tri-Grip™ (Tri-Clamp® Compatible)
- ✓ 6 mm (¼") Standard Stem Diameter
- ✓ Glass Lens Standard
- ✓ Standard Lengths From 2½ to 15"

For Complete Details Visit omega.com/sanitary_dialtemps



AA-0-200F-2-1/2, \$233.

JJ-0-200F-2-1/2, \$301, shown smaller than actual size.

Non-Reversible Labels for Low Temperatures

MOST POPULAR MODELS HIGHLIGHTED!

The TL-CC series are used to control and identify problematic temperature conditions that are experienced in transportation of goods, using a low cost method for instance for medical supplies, or to increase food protection in transit to warehouse or depots. Change of state occurs after a short duration not exceeding five minutes, staining of the white paper (to blue/purple) occurs when the specified rating has been exceeded.

Specifications

Type: Non-reversible indicator, circular, self-adhesive
Size: 32 mm diameter by 6 mm deep (1.25" by 0.23")
Print: 2 colors (blue print onto white background)
Temperature: °F and °C, ±0.1°C accurate

Model No.	Price/Pkg of 10	Description °C (°F)
TL-CC-17C	\$18	-17 (+1)
TL-CC-8C	18	-8 (+18)
TL-CC-5C	18	-5 (+23)
TL-CC-2C	18	-2 (+28)
TL-CC/5C	18	+5 (+41)
TL-CC/9C	18	+9 (+48)
TL-CC/17C	18	+17 (+63)
TL-CC/20C	18	+20 (+68)

Ordering Example: TL-CC/5C, 5° low temperature label, package of 10, \$18.

For Complete Details Visit omega.com/tl-cc



TL-CC-17C, \$18, shown actual size.

Triple Level Thermal Disinfection Indicator (TDI)

- ✓ Adhesive Backed
- ✓ Attach to Tray/Carrier
- ✓ Remove and Retain as Permanent Record of Temperature Attained
- ✓ Proof for HACCP Compliance Documentation
- ✓ Accurate to ±1°C of Rated Temperature Physical Properties

TDI is designed to withstand the extreme conditions within an industrial dishwasher and provide permanent proof that a rated temperature has been reached.

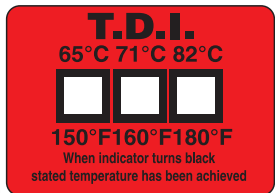
Not one, but 3 distinct temperature levels depending upon need. An irreversible color change occurs from white/grey to black; at 65°C (150°F) for standard dish washers, at 71°C (160°F) for a thermal/chemical disinfection and 82°C (180°F) when a thermal disinfection temperature has been reached.

Specifications

Adhesive Type: Acrylic with clear polyester carrier
Covering Film: 50 µm Polyester
Size: 25 x 35 mm (1 x 1.4")
Color Change Material: Non-toxic, white crystalline melt material coated on a black absorbent backing

For Complete Details Visit omega.com/tl-ti

Application: Peel label from backing paper. Apply to clean, dry surface; ideally a plate or stainless steel surface in the middle of the dishwasher rack. Ensure the entire indicator is in contact with the surface. Remove indicator while the surface is still warm.
Shelf Life: 12 months from invoice date when stored at room temperature and humidity [i.e. 21°C (70°F) & 50% relative humidity]

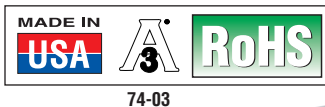


Shown actual size.

Model No.	Price	Description
TL-TI-5	\$17	25 labels per pack
TL-TI-3	30	50 labels per pack

Series S Sanitary Thermowells

Standard Threaded Well for ¼ or ⅜" Diameter Elements



74-03



11/2-S-260-U7 1/2-316SS, \$170, shown smaller than actual size.

11/2-S-385-U1 5/8-316SS, \$110, shown smaller than actual size.

For Complete Details Visit omega.com/s-260_s-385



Other Flange Diameters From 1½ to 4"

To Order, Call **1-800-82-66342** or Shop Online at omega.com

SANITARY



Sanitary Current Output Pressure Transducer

0.25% Accuracy

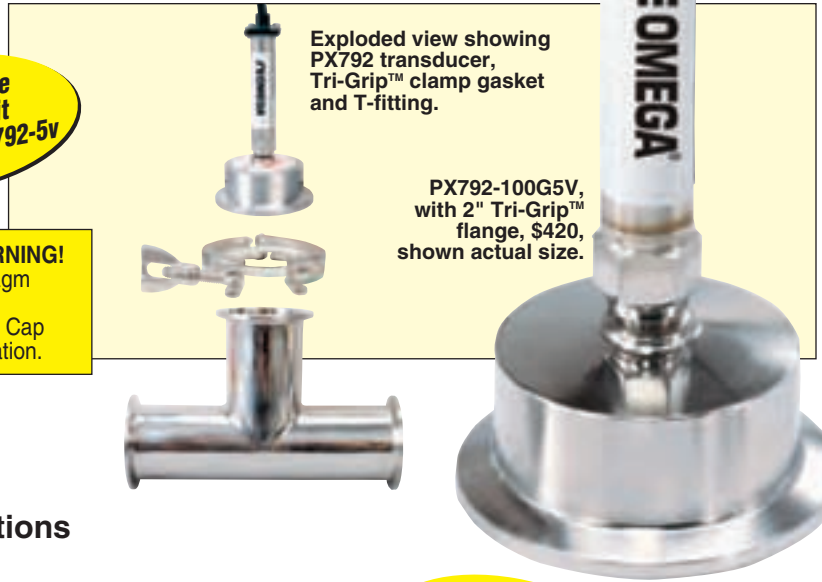
Ranges from Vacuum to 1000 psi (69 bar)
4 to 20 mA Output

PX792 Series Starts at
\$420



For Complete Details Visit
omega.com/px792-5v

CAUTION AND WARNING!
Sensitive Diaphragm
Do Not Touch!
Remove Protective Cap
Just Before Installation.



Exploded view showing PX792 transducer, Tri-Grip™ clamp gasket and T-fitting.

PX792-100G5V, with 2" Tri-Grip™ flange, \$420, shown actual size.

- All Stainless Steel Construction
- NEMA 4X (IP65) Enclosure
- Dairy, Food Processing, Pharmaceutical, Biotech Applications
- High Reliability

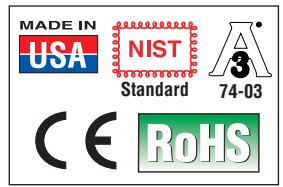
Sanitary Process Transducers

Using Micro-Machined Silicon Technology

10 mV/V, 0 to 5 Vdc, 4 to 20 mA Outputs

Gage or Absolute* Pressure
10 inH₂O to 600 psi
(25 mbar to 41 bar)
1½" or 2" Tri-Grip Fitting
**Absolute ≥ 5 psi*

PX409S Tri-Grip™ Sanitary Series Starts at
\$585



- High, 0.08%, Accuracy
- Solid State Sensor for Durability
- Excellent Long Term Stability
- Welded Stainless Steel Construction
- 316L SS Wetted Parts
- Shock and Vibration Rated
- High Overpressure Rating
- Ruggedized with Secondary Containment

The PX409S Series micro-machined silicon transducers with 1½ or 2"



Twist-lock style.

Cable or M12 Fitting Also Available

PX429S15-005GV, \$585, shown slightly smaller than actual size.

Fast Delivery!



mini DIN style.

PX419S20-100AV, \$585, shown slightly smaller than actual size.

sanitary fittings are ideal for pressure or level CIP applications in food processing, beverage or bio/pharmaceutical applications as well as industrial applications that require a rugged, high accuracy transducer. The micro-machined

silicon sensor provides a very stable transducer with exceptional high accuracy of 0.08% and a broad compensated range of -6.7 to 85°C (20 to 185°F). The modular construction allows for fast delivery of most configurations and fittings.

Sanitary Tuning Fork Level Sensors

LTU-2000 Series
Starts at
\$330

- ✓ Made with 316 SS Standard
- ✓ PTFE Coatings Option Available
- ✓ Relay and Transistor Outputs Available
- ✓ 1½" Tri-Grip™ Available

LTUR-2041, \$510, shown smaller than actual size.

For Complete Details Visit omega.com/ltu2000



Sanitary Conductive Level Controllers

LVCN4000 Series
Starts at
\$250

- ✓ Accurate and Reliable Measurement
- ✓ Easy Installation
- ✓ Rugged Construction
- ✓ No Moving Parts

LVCN-4151-12, \$400, shown smaller than actual size.

For Complete Details Visit omega.com/lvcn4000



Sanitary Electromagnetic Flowmeter

FMG600 Series
Starts at
\$3450

For Complete Details Visit omega.com/fmg600

- ✓ RS485 Standard
- ✓ High Accuracy
- ✓ 4 to 20 mA and Frequency Outputs Standard
- ✓ ½ to 2½" Tri-Grip™ Available

FMG601-S, \$4120, shown smaller than actual size.



Sanitary Turbine Flowmeters 3-A Label for Process Liquid Measurement

FTB-400A Series
Starts at
\$1254



For Complete Details Visit omega.com/ftb400

- ✓ Meets 3-A Sanitary Standard No. 28-01
- ✓ 11 Sizes Available, from ¼ to 3"
- ✓ Flow Rates from 0.35 to 650 GPM
- ✓ Suitable for Cleaning in Place (CIP)

FTB-410A, \$2200, shown smaller than actual size.



Sanitary Thermal Dispersion Flow Switches

FSW-6000 Series
Starts at
\$456

- ✓ No Moving Parts—Maintenance Free Reliability
- ✓ Operates in Temperatures Up to 120°C (248°F) with Sanitary Option
- ✓ Maximum Working Pressure 300 bar (4300 psi)
- ✓ Chain of 8 LEDs
- ✓ 1½" Tri-Grip™ Available



FSW-6512, \$606, shown smaller than actual size.

For Complete Details Visit omega.com/fsw6000

Sanitary Conductivity Transmitters

CDTX-90 Series
Starts at
\$576



For Complete Details Visit omega.com/cdtx90

CDTX-90-1, \$576, shown smaller than actual size.

- ✓ 1.5" Sanitary Mount Available
- ✓ Display in μS , mS, k Ω , M Ω , ppm (TDS)
- ✓ Relay Options
- ✓ 2 x 16 Character Dot Matrix LCD



CDCE-90S-1-S15, \$607, shown smaller than actual size.

Sanitary Medium Viscosity Drum Pumps

FPUD400 Series
Starts at
\$370



For Complete Details Visit omega.com/fpud400

- ✓ Pump Tube and Motor Supplied Separately for Maximum Flexibility
- ✓ Sanitary Polished 316 SS Pump Tubes
- ✓ TEFC or Air Driven Motors
- ✓ For Fluids up to 2000 cps Viscosity and 1.8 Specific Gravity



All models shown smaller than actual size.

FPUD411, 115 Vac motor, \$822.



FPUD431, air motor, \$370.



FPUD4-SNT40, sanitary pump tube, \$1444.

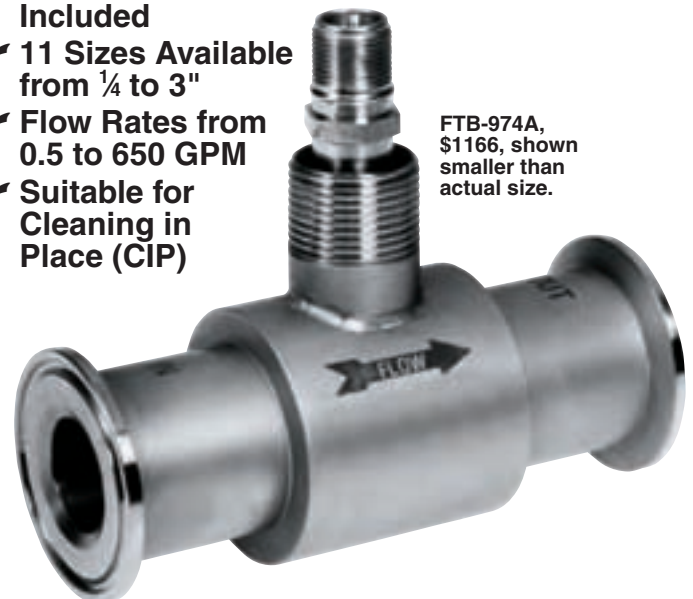
Sanitary Turbine Flowmeters

FTB-970A Series
Starts at
\$1166



For Complete Details Visit omega.com/ftb970

- ✓ NIST Certificate Included
- ✓ 11 Sizes Available from ¼ to 3"
- ✓ Flow Rates from 0.5 to 650 GPM
- ✓ Suitable for Cleaning in Place (CIP)



FTB-974A, \$1166, shown smaller than actual size.

Sanitary Capacitance Level Switches

LVCN4300 Series
Starts at
\$690



- ✓ Can Operate at High Temperatures and Pressure
- ✓ Unaffected by Coating Media or Aggressive Products
- ✓ Accurate and Reliable Switching
- ✓ Easy Economical Installation

LVCN4341-12, \$840,
shown smaller
than actual size.

For Complete
Details Visit
[omega.com/
lvcn4300](http://omega.com/lvcn4300)



Sanitary Liquid Flow Transmitter and Switch

FSW-9000 Series
Starts at
\$654

For Complete
Details Visit
[omega.com/
fsw9000](http://omega.com/fsw9000)

- ✓ High Reliability—No Moving Parts
- ✓ 4 to 20 mA, PNP/NPN (Transistor), or Relay Output
- ✓ Excellent Low Flow Sensitivity
- ✓ 1½" Tri-Grip™ Available



FSW-9512, \$786, shown
smaller than actual size.

Sanitary Loop Powered and 4-Wire Ultrasonic Level Transmitters

LVU1502
\$1100

- ✓ 0.3 to 7.6 m (1 to 25') Range
- ✓ Programmable Zero and Span Through BCD Switches
- ✓ STD Near Zone Varies from 152.4 to 305 mm (6 to 12")
- ✓ 1½" Sanitary Available



LVU1502, \$1100,
shown smaller
than actual size.

For Complete
Details Visit
[omega.com/
lvu1500](http://omega.com/lvu1500)



Sanitary Conductivity Level Switches

LVCF Series
Starts at
\$358
For Complete
System

- ✓ Easy to Install and Operate
- ✓ Rugged Construction
- ✓ Low Cost
- ✓ Removable Rods
- ✓ Up to 5 Points of Level Control

For Complete
Details Visit
omega.com/lvcf



LVCF-351, \$352,
shown smaller
than actual size.

TEMPERATURE MEASUREMENT

A SELECTION OF OUR MOST POPULAR PRODUCTS



For Our Complete Selection Visit omega.com/temperature



Cover Art: Based on an Original Norman Rockwell Illustration © 1961 The Curtis Publishing Company



For Complete Details Visit omega.com/m12probes and omega.com/pr-21

Thermocouple and RTD Probes With Mounting Threads and M12 Connectors **Standard** Sizes, **Metric** Available

Both models shown smaller than actual size.

M12 Series Starts at **\$30**
PR-21 Series Starts at **\$60**



M12JSS-14-U-6-B, \$47.

PR-21A-3-100-A-0600-M12-1, \$60.

- ✓ -50 to 90°C (-58 to 194°F) Connector Temperature Range
- ✓ Many Standard Lengths Available
- ✓ Stainless Steel Transition with M12 Connector

MOST POPULAR MODELS LISTED!

Standard

To Order (Specify Model Number)						
Model Number	Price		Probe Length	Thermocouple Calibration	Sheath Material	Mounting Thread
	1/8"	1/4"				
M12JSS-(*)-U-6-B	\$40	\$47	6"	J	304 SST	1/2 NPT
M12KIN-(*)-U-6-B	40	47	6"	K	Inconel 600	1/2 NPT

(*) Insert probe diameter "18" for 1/8" or "14" for 1/4" diameter.
 For dual element, add "-DUAL" to the model number and multiply price by \$1.75.
 For longer probe lengths add the required length in inches to the model number and add \$0.50 per inch to the price for Type J 304 SST, or \$0.65 per inch for Type K Inconel 600 sheaths.
Ordering Example: M12JSS-18-U-6-B, Type J thermocouple, 1/8" diameter by 6" long with 304 stainless steel sheath, stainless steel transition with 1/2 NPT fitting and M12 connector, \$40.

Standard

Model Number	Price	Element	Probe Length	Mounting Thread
PR-21A-3-100-A-1/4-0600-M12-1	\$60	Pt100, Class A	6"	None
PR-21B-3-100-A-1/4-0600-M12-1	70	Pt100, Class A	6"	1/2 NPT

For lengths other than 6", change "0600" in model number to required length and add \$1 per inch greater than 6" (example: 9" = 0900, 4 1/2" = 0450).
 For 1/8" probe diameters, change "1/4" in model number to "1/8", no additional cost.
Ordering Example: PR-21A-3-100-A-1/4-0600-M12-1, 1/4" diameter probe 6" long with Pt100, Class A element, no mounting thread, with M12 connector, \$60.

For Complete Details Visit omega.com/m12ccables

Molded M8 and M12 Thermocouple Extension Cable

M8C and M12C Series Starts at **\$11**



- ✓ Available in M8 and M12 Constructions
- ✓ Female Connectors Attach to Male (Pin) Sensor Connectors

- ✓ M12 Cables Have Thermocouple Compensated Wires and Sockets
- ✓ Wires Have Silicone Insulation and Jacket

MOST POPULAR MODELS LISTED!



M12C-SIL-J-S-F-1.5, \$11, shown smaller than actual size.

To Order (Specify Model Number)				
Model Number	Price	Thermocouple Type	Cable Length	Connector Orientation
M12C-SIL-K-S-F-1.5	\$11	K	1.5 m	Straight
M12C-SIL-K-S-F-3	14	K	3 m	Straight
M8C-SIL-J-S-F-1.5	11	J	1.5 m	Straight
M8C-SIL-J-S-F-3	13	J	3 m	Straight
M8C-SIL-K-S-F-3	14	K	3 m	Straight

Ordering Example: M12C-SIL-J-S-F-3, thermocouple extension cable, Type J silicone insulated and jacketed cable, 3 m long with straight M12 female connector one end, \$13.
 For IEC color codes, insert "I" after "J" or "K" in model number.

To Order, Call **1-800-82-66342** or Shop Online at omega.com

TEMPERATURE



Visit omega.com/dilbert

for your daily dose of DILBERT!

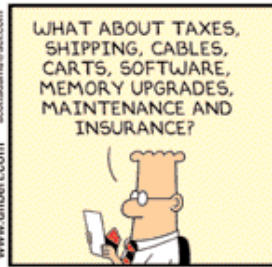
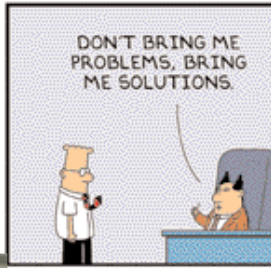
DILBERT® by Scott Adams

Dual DIN Rail Temperature Transmitter

TXDIN70 Starts at **\$85**

External plug-in display, sold separately

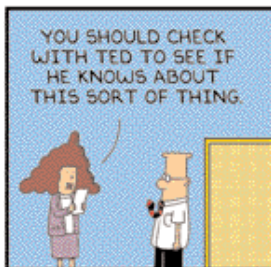
Visit omega.com/txdin70



High Performance Universal RTD Calibrator

CL515-PLUS **\$1847**

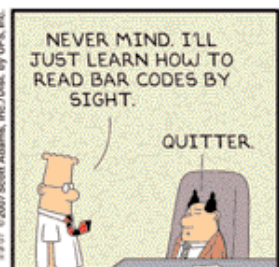
Visit omega.com/cl515-plus



Lab Calibrator

CL3001 **\$4495**

Visit omega.com/cl3001



Dilbert © United Feature Syndicate

Thermocouple and RTD Probes With M8 and M12 Molded Connectors



For Complete Details Visit
omega.com/m12molded and
omega.com/m8molded

M8M and M12M Series

Starts at

\$21



M12MKIN-14-U-12, \$33, shown smaller than actual size.

Standard

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model Number	Price		Probe Length	Thermocouple Calibration	Sheath Material
	1/8"	1/4"			
M12MJSS-(*)-U-12	\$23	\$29	12"	J	304 SST
M12MKIN-(*)-U-12	25	33	12"	K	Inconel 600
M8MJSS-18-U-6	21	—	6"	J	304 SST

(*) Insert "18" for 1/8" or "14" for 1/4" diameter.

For dual element, add "-DUAL" to the model number and add multiply price by \$1.75.

For longer probe lengths enter the required length in inches to model number and add \$0.50 per inch to the price for 304 SST, or \$0.65 per inch for Inconel® 600 sheaths.

Ordering Example: M12MJSS-18-U-6, Type J Thermocouple, 1/8" diameter by 6" long with 304 stainless steel sheath and molded M12 connector, \$21.

Metric

Model Number	Price		Probe Length	Thermocouple Calibration	Sheath Material
	3 mm	6 mm			
M12MJSS-M3-U-250	\$22	\$26	250 mm	J	304 SST
M12MKIN-M3-U-250	23	30	250 mm	K	Inconel 600
M8MJSS-(*)-U-150	21	21	150 mm	J	304 SST
M8MKIN-(*)-U-150	21	21	150 mm	K	Inconel 600

(*) Insert "M3" for 3 mm or "M6" for 6 mm probe diameters.

For dual element, add "-DUAL" to model number and multiply price by \$1.75.

For longer lengths, enter the required length in millimeters to the model number and add \$0.50 per 25 mm to the price for 304 SST sheathed Type J or \$0.65 per 25 mm for Inconel 600 sheathed Type K thermocouples.

Ordering Example: M12MJSS-M3-U-250, Type J thermocouple with 3 mm diameter 304 stainless steel sheath 250 mm long with molded M12 connector, \$22.

For Complete Details Visit
omega.com/pr-22 and
omega.com/pr-23

PR-22 and PR-23 Series

Starts at

\$31



PR-22-3-100-A-1/8-0600-M12, \$39, shown smaller than actual size.



Standard

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model Number	Price		Probe Length	Element Specification
	1/8" Dia	1/4" Dia		
PR-22-3-100-A-(*)-1200-M12	\$45	\$50	12"	Pt100, Class A
PR-23-1-100-A-1/8-0600-M8	33	—	6"	Pt100, Class A
PR-23-1-1000-B-1/8-1200-M8	41	—	12"	Pt1000, Class B

(*) = Insert probe diameter of 1/8 of 1/4 inches.

For Class B, change "-A" in model number to "-B" and subtract \$4 from the price.

For 1/8 DIN, change "-A" in model number to "-1/3" and add \$9 to the price.

Ordering Example: PR-22-3-100-1/3-1/4-1200-M12, 1/4" diameter by 12" long Pt100 Class 1/8 DIN RTD sensor with molded M12 connector, \$50 + 9 = \$59.

Metric

Model Number	Price		Probe Length	Element Specification
	3 mm Dia	6 mm Dia		
PR-22-3-100-A-(*)-250-M12	\$42	\$48	250 mm	Pt100, Class A
PR-23-1-100-A-M3-250-M8	37	—	250 mm	Pt100, Class A
PR-23-1-1000-B-M3-350-M8	41	—	350 mm	Pt1000, Class B

(*) = Insert probe diameter of "M2", "M3" or "M6" for 2 mm, 3 mm or 6 mm probe diameters shown in table.

For Class B, change "-A" in model number to "-B" and subtract \$4 from the price.

For 1/8 DIN, change "-A" in model number to "-1/3" and add \$9 to the price.

Ordering Example: PR-22-3-100-A-M3-250-M12, 3 mm diameter by 250 mm long Pt100 Class A RTD sensor with molded M12 connector, \$42.

TEMPERATURE



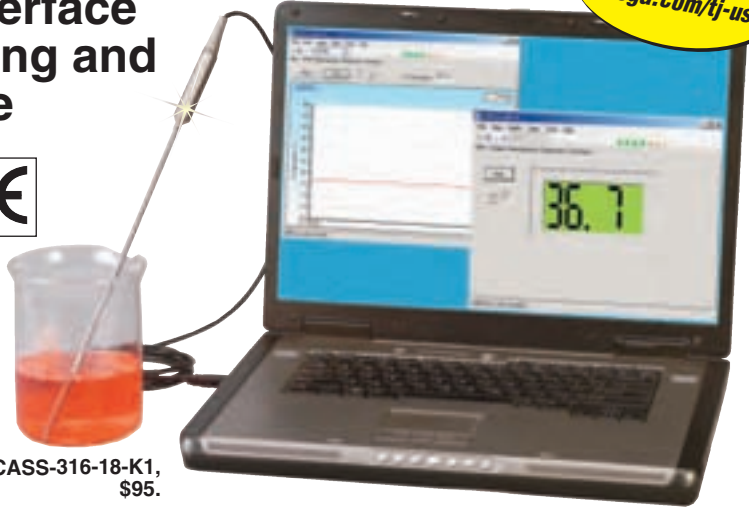
Transition Joint Thermocouple Probe Features USB Interface and Free Recording and Logging Software

For Complete
Details Visit
omega.com/tj-usb

TJ-USB Series
Starts at
\$95



Optional†



TJ-USB-CASS-316-18-K1,
\$95.

- ✓ Connects Directly to a USB Port on Your Computer
- ✓ Free Software Converts Your PC into a Temperature Meter, Data Logger or Chart Recorder

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
TJ-USB-CASS-(*)-(**)-K1	\$95	304 SS transition joint probe -73 to 315°C (-100 to 600°F)
TJ-USB-CASS-(*)-(**)-K2	95	304 SS transition joint probe -200 to 850°C (-328 to 1562°F)
RH-USB	145	Humidity/temperature probe with USB
HX70-MKIT	15	Wall/duct mounting kit for RH-USB
CAL-3†	125	NIST traceable calibration with 3 data points

Relative Humidity
Probe with USB
Connection Available,
See Page 47

*Insert "316" for 4.5 mm (0.187" diameter sheath) or "14" for 6 mm (0.250" diameter sheath).

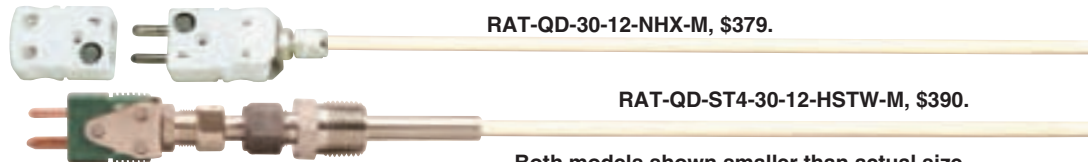
**Insert "18" for 457 mm (18" probe length) or "24" for 610 mm (24" probe length).

Ordering Example: TJ-USB-CASS-14-24-K1, heavy-duty USB TJ probe, 304 SS sheath, 6 mm (1/4") OD, 610 mm (24") long with integral USB cable and Type A connector, -73 to 315°C (-100 to 600°F) temperature range, \$95.

Quick Disconnect High-Temperature Platinum Thermocouple Assemblies and Ceramic Protection Tube

For Complete
Details Visit
omega.com/xta

RAT Series
Starts at
\$370



RAT-QD-30-12-NHX-M, \$379.

RAT-QD-ST4-30-12-HSTW-M, \$390.

Both models shown smaller than actual size.

- ✓ NHX Standard Ceramic Connector Rated to 650°C (1200°F)
- ✓ HSTW Standard Connector Liquid Crystal Polymer Rated to 260°C (500°F)
- ✓ Up to 1650°C (3000°F) Rating
- ✓ Oxidizing or Reducing Atmospheres
- ✓ 1/4" Diameter High-Purity Aluminum Protection Tube
- ✓ Tube Clamp Included for Extra Strength
- ✓ Includes Free Mating Connector

Available Options

- ✓ NIST Traceable Calibration
- ✓ Custom Probe Lengths
- ✓ Dual Element
- ✓ Custom Support Tube Lengths

Type R, S, or B Platinum Thermocouple enclosed in a high-purity alumina protection tube. Elements are insulated by a double bore high purity hard-fired alumina insulator.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)				
Model No.	Thermocouple Calibration	AWG Wire Size	Price 300 mm (12")	Price/Add'l 150 mm (6")
RAT-QD-30-12-HSTW-M	Pt vs Pt 13% Rh	30	\$370	\$125
SAT-QD-24-12-HSTW-M	Pt vs Pt 10% Rh	24	950	425

Wire batch certificate reports available at no charge upon request; add suffix "-CERT" to model number. For standard ceramic connector, replace "HSTW-M" in model number with "NHX-M", add \$9.

Ordering Example: RAT-QD-30-18-HSTW-M, quick disconnect standard ceramic connector high temperature probe, Type R, 30 AWG (0.010"), 18" long high-purity aluminum protection tube, \$370 + 125 = \$495.



High Temperature Thermistors Glass Encapsulated, Up to 200°C (392°F)

55000 Series

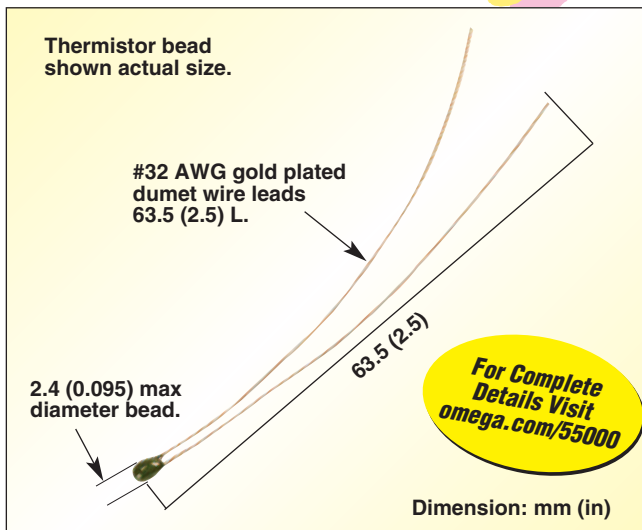
\$22

Each



- ✓ Maximum Continuous Use, 200°C (392°F) [Short Term Use to 250°C (482°F)]
- ✓ Excellent Long Term Stability
- ✓ Hermetically Sealed Glass Bead
- ✓ Available in 2252, 3000, 5000 and 10,000 Ω Resistances at 25°C (77°F)
- ✓ Tolerance: ±0.2°C From 0 to 70°C (32 to 158°F)
- ✓ #32 AWG, Gold Plated Dumet Leads 63.5 mm L (2.5")

The OMEGA® 55000 Series glass encapsulated thermistors provide a higher temperature alternative to the OMEGA 44000 Series epoxy coated thermistors where needed. With a maximum continuous temperature rating of -80 to 200°C (-112 to 392°F), and intermittent operation to 250°C (482°F), the 55000 can be used in those applications previously out of reach.



With the same small size as our 44000 thermistor Series, and solderable #32 AWG gold plated Dumet leads, the 55000 thermistor can be used interchangeably wherever our 44000 Series thermistors are used.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)							
Model Number	Resistance at 25°C	Tolerance (0 to 70°C)	Beta 0 to 50°C (K)	Ratio Ohm 25/125°C	Best Working Temperature	Short Term Temperature	Price (Each)
55007	5000	0.2°C	3891	29.26	-80 to 200°C (-112 to 392)	250°C (482°F)	\$22
55016	10000	0.2°C	3891	29.26	-80 to 200°C (-112 to 392)	250°C (482°F)	22

Ordering Example: 55007, thermistor, 5000 Ω at 25°C (77°F), 2.4 mm (0.095") max bead diameter with two 63.5 mm L (2.5") gold plated dumet lead wires, \$22.

Non-Reversible Profile Style OMEGALABEL® Continuous Temperature Labels

TL-P Series Starts at

\$60

7.5 m (25') Roll*
150 Labels



TL-P-3-110-25, \$60.

PATENT PENDING

Determine your own profile length—as small as 50.8 mm (2") or as long as 7.5 m (25').

- ✓ Permanent, Non-Reversible Indicating Labels
- ✓ Accurate to ±1°C (1.8°F)
- ✓ For Temperatures from 43 to 54°C (110 to 130°F)
- ✓ Continuous Profile Lengths from 50 mm (2") Up to 7.5 m (25') and Longer

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Range
TL-P-3-110-25	\$60	43 to 54°C (110 to 130°F)

* 15 and 30 m (50 and 100') roll lengths also available for special order, consult sales.

Ordering Example: TL-P-3-110-25, 7.5 m (25') continuous length of 43 to 54°C (110 to 130°F) non-reversible temperature labels (150 labels), \$60.

To Order, Call **1-800-82-66342** or Shop Online at omega.com

TEMPERATURE



Thermocouple Terminal Blocks DIN Rail Mounting and Audit Capable

For Complete Details Visit omega.com/drtb

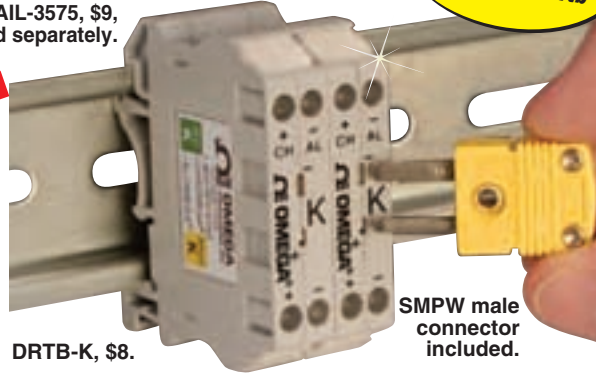
DRTB Series
\$8



PATENT PENDING

- ✓ Screw Type Terminal for Secure and Maintenance Free Connections
- ✓ Type K, J, T, E, N, R/S and U Calibrations
- ✓ Built in Miniature Female Thermocouple Connector for Auditing and Troubleshooting
- ✓ Fully Enclosed—No End Plates Required
- ✓ DIN Rail Mountable—Narrow 10.7 mm Width
- ✓ Male SMPW Connector Included

DRTB-RAIL-3575, \$9, sold separately.



DRTB-K, \$8.

SMPW male connector included.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
DRTB-(*)	\$8	Thermocouple terminal block

* Specify thermocouple calibration: **K, J, T, E, R/S, N** or **U**.
For IEC color coded product insert an "I" after the calibration letter.
Ordering Example: DRTB-K, Type K thermocouple terminal block for DIN rail mounting with RECK1-10 Type K, 0.3 m L (1') retractable extension cable, \$8 + 18.50 = **\$26.50**.

Surface Temperature Connector/Sensor For Use with Most Handheld Thermometers

STC-100 Series

\$59

All Models



For Complete Details Visit omega.com/stc-100

- ✓ Connector Plugs Directly into Most Handheld Thermometers
- ✓ Available in K or E Thermocouple Types
- ✓ For Measurements Up to 218°C (425°F)
- ✓ Fast 250 msec Response Time
- ✓ Removable, Replaceable Sensor Element For Easy Maintenance



STC-100-K-SMP-M, connector \$59, shown actual size.

PATENT PENDING

OMEGA's new surface temperature Connector offers a fast, easy way to measure surface temperatures. Just plug the STC100 into your handheld thermometer and you're ready to take readings. The small, compact connector body features an integral thermocouple sensor specifically designed for low temperature surface measurements and can be easily removed for cleaning or replacement if damaged. Models feature miniature male connection pins and are available in K or E calibrations.



STC-100-K-SMP-M connector.

HH-21A digital thermometer Type K, \$175. Visit omega.com/hh-21a

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
STC-100-(*)-SMP-M	\$59	Surface temperature connector, miniature male connector

Comes complete with operator's manual.

* For Type K calibration insert "K", For Type E calibration insert "E".

Ordering Example: STC-100-K-SMP-M, Type K surface temperature connector with miniature male connection and HH26K, Type K, °C or °F switchable thermometer, \$59 + 125 = **\$184**.

Temperature/Relative Humidity/Infrared Bench Top Handheld Meter

With Laser Dot/Circle Sighting, Data Logging and **Wireless** Sensor Probe Option



RH511 Series Starts at **\$355**



Optional†

For Complete Details Visit omega.com/rh511

PATENTED

The RH511 is a high performance, handheld temperature/relative humidity/infrared meter. This meter has many features including two temperature inputs (Type K thermocouple), triple LCD display of humidity/temperature or infrared temperature and thermocouple temperature, MIN/ MAX/HOLD functions, data logging, USB interface with Windows based PC software, and wireless temperature/ humidity sensor probe option.



TEMPERATURE

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
RH511	\$355	Portable temperature/relative humidity/infrared meter with wired sensor probe
RH511-*	399	Portable temperature/humidity/infrared meter with wireless sensor probe

* Add "W9" for USA and Canada (915 MHz), or "W8" for Europe (868 MHz)
 Comes complete with a wired or wireless temperature/humidity sensor probe, Type K thermocouple, 6 "AA" size lithium batteries, USB cable, DC adaptor, software CD, mini-tripod, 1.8 m (6') sensor extension cable, operator's manual, and soft carrying case.
Ordering Example: RH511-W9, portable temperature/humidity meter with wireless sensor probe for US and Canada (915 MHz), \$399. OCW-2, OMEGACARESM extends standard 1-year warranty to a total of 3 years (\$63), \$399 + 63 = \$462.

RH511, \$355.

Economical Humidity/Temperature Sensor

Features USB Interface and Free Recording and Logging Software

RH-USB **\$145**



Optional

Thermocouple Probe with USB Connection Available, See Page 44

For Complete Details Visit omega.com/rh-usb

- ✔ Connects Directly to a USB Port on Your Computer
- ✔ Free Software Converts Your PC into a Humidity and Temperature Meter, Data Logger or Chart Recorder
- ✔ Accurate to ±3% RH, ±1°C (±1.8°F)
- ✔ 316 SS Housing and Removable Stainless Steel Sensor Filter
- ✔ Suited for Wall or Duct Mounting

The RH-USB relative humidity/temperature sensor provides a reliable and economical method for most relative humidity and temperature monitoring applications. The compact design is ideal for wall or duct mounting.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
RH-USB	\$145	Humidity temperature sensor with USB connection

Comes complete with an integral shielded 2 m (6') USB cable with Type-A connector, free software, removable protective sensor filter and operator's manual.
Ordering Example: RH-USB RH/temp sensor and HX70-MKIT wall/duct mounting kit, \$145 + 15 = \$160.



To Order, Call **1-800-82-66342** or Shop Online at omega.com



Visit omega.com/dilbert

for your daily dose of DILBERT!

DILBERT® by Scott Adams

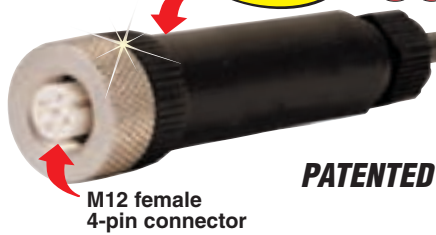
Connector/Transmitter For Sanitary Pt100 Probes with M12 Connector Splash-Proof Body and Integral Cable
The Smart Connector™

Visit omega.com/sprtx-ss

SPRTX-SS Series
All Models
\$95

Built-In Transmitter Housing!

MADE IN USA



M12 female 4-pin connector

PATENTED

Universal Thermocouple Calibrator

Visit omega.com/cl542-plus

CL542-PLUS
\$1295

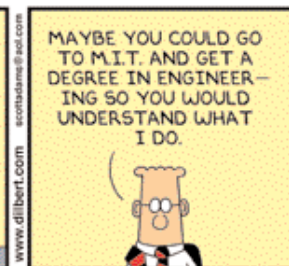
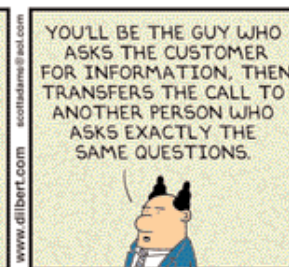
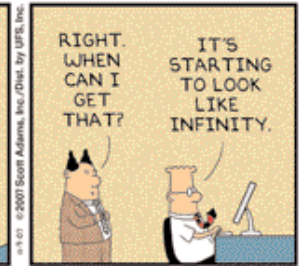
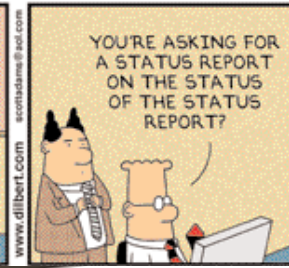
MADE IN USA



Benchtop Oscilloscope

Visit omega.com/bos_series

BOS Series
Starts at
\$499



Dilbert © United Feature Syndicate

Thermal Imager

OSXL-101
\$1990

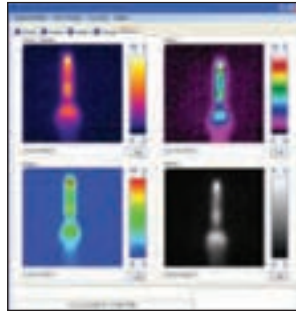


- ✓ Thermal Imager with Ethernet Connection
- ✓ Easy to Use and Implement
- ✓ 2256 Pixel Resolution
- ✓ Built-In Alarms
- ✓ NEMA 4 (IP65)

The OSXL-101 is a compact infrared thermal imaging sensor utilizing a thermopile array detector. The OSXL-101 sensor measures real-time temperature and a thermal

image up to 300°C (572°F). Ethernet connectivity allows the sensor to communicate with the PC running the application software or customers LAN.

Thermal imaging software included.



AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
OSXL-101	\$1990	Fixed mount thermal imager
OSXL-100-PE	395	NEMA 4X (IP65) stainless steel protective enclosure
OSXL-100-LAN	80	Replacement LAN cable, 2.5 m (8.2')
OSXL-100-PAC	120	Replacement power/alarm cable, 2.5 m (8.2')
OSXL-100-MOUNT	40	Replacement mounting stand
OSXL-100-PS	100	Replacement power supply with 2.5 m (8.2') cable

Comes complete with operator's manual, software CD, mounting stand, power supply, LAN cable, power/alarm cable, mounting screws and plugs, lens and connector caps.

Ordering Example: OSXL-101, thermal imager, \$1990. OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years (\$350), \$1990 + 350 = \$2340.



OSXL-101, \$1990, shown with mounting stand (included).

Rugged, Weatherproof, Wall Mounted Temperature Sensor Pt100 Class A Sensor in NEMA 4X (IP65) Enclosure

EWSE Series Starts at
\$140

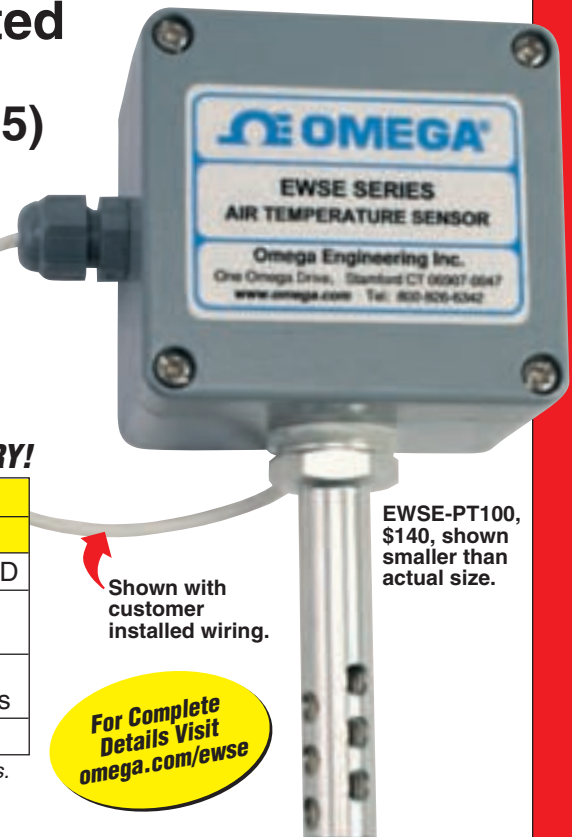


- ✓ Designed for Indoor and Outdoor Use
- ✓ Screw Terminal Block for 4-Wire Pt100 Connection
- ✓ Optional Built in 4 to 20 mA Transmitter
- ✓ Rugged Sensor and Protection Tube Design

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
EWSE-PT100	\$140	External air temperature assembly, 4-wire RTD
EWSE-PT100-TX	208	External air temperature assembly with 2-wire 4 to 20 mA transmitter
TX-SCALED	45	Factory scaling charge for non-standard temperature range on 4 to 20 mA output models
TX4-100	35	Multi-conductor hook-up wire, 100' spool

Other probe lengths available on request. Contact sales to discuss your specific requirements. Ordering Example: EWSE-PT100, air temperature sensor, \$140.



EWSE-PT100, \$140, shown smaller than actual size.

TEMPERATURE

To Order, Call **1-800-82-66342** or Shop Online at **omega.com**



Non-Contact Infrared Temperature Sensor With **Wireless** Transmitter

UWIR-2-NEMA

\$285



- ✓ -18 to 538°C (0 to 1000°F) Measurement Range
- ✓ Adjustable Emissivity from 0.10 to 1.0
- ✓ Free Software Converts Your PC Into a Multi-Channel Chart Recorder or Data Logger

OMEGA's new infrared sensor with wireless transmitter features a remote IR sensor and radio wireless transmitter in a NEMA enclosure. The miniature sensor head is ideal for measuring temperatures from -18 to 538°C (0 to 1000°F) in confined, hard-to-reach places and harsh environments.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

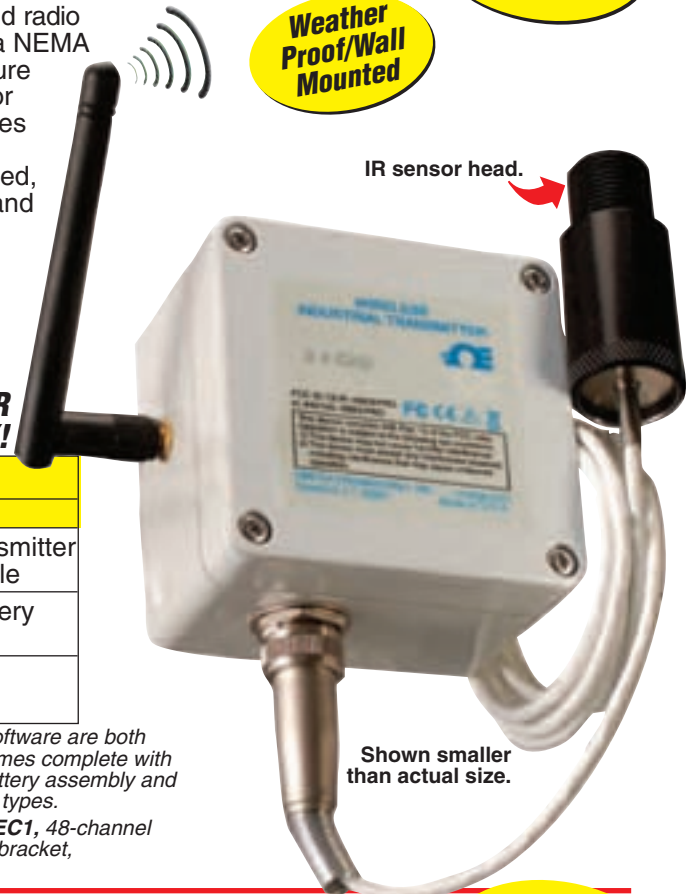
Model No.	Price	Description
UWIR-2-NEMA	\$285	Non-contact wireless infrared transmitter with remote sensor, 1.8 m (6') cable
UWTC-BATT-C	25	Replacement 3.6V lithium "C" battery assembly (one included)
UWTC-CABLE	5	Spare programming cable (one included with receivers)

Note: USB programming cable and FREE measurement and data logging software are both included with compatible UW Series wireless receivers and transceivers. Comes complete with transmitter, infrared sensor head, sensor head mounting nut, 3.6V lithium battery assembly and operator's manual. UWTC-REC6 models only available with V1 or V2 output types.

Ordering Example: UWIR-2-NEMA, wireless infrared transmitter, UWTC-REC1, 48-channel USB receiver, UWTC-BATT-C, spare battery, and OS100-MB, sensor head bracket, \$285 + 225 + 25 + 20 = \$555.

For Complete Details Visit omega.com/uwir-2

Weather Proof/Wall Mounted



IR sensor head.

Shown smaller than actual size.

Economical Infrared Temperature Sensor Features USB Interface and Free Charting and Logging Software

IR-USB
\$175



- ✓ Connects Directly to a USB Port on Your Computer
- ✓ Free Software Converts Your PC into a Temperature Meter, Data Logger or Chart Recorder
- ✓ -18 to 538°C (0 to 1000°F) Measurement Range
- ✓ Adjustable Emissivity from 0.10 to 1.0

The IR-USB infrared temperature sensor provides a reliable and economical method for most non-contact temperature monitoring applications. Each unit is factory calibrated to provide excellent sensitivity, fast response, and stability. The unit features a IR sensor/signal conditioner installation with a direct USB connection.

To Order (Specify Model Number)

Model No.	Price	Description
IR-USB	\$175	Infrared temperature sensor with USB connection

Comes complete with an integral shielded 1.8 m (6') USB cable with Type A connector, software, mounting nut and operator's manual.

Add "-HT" for high temperature sensor head and add \$100 to price.

Ordering Example: IR-USB Infrared temperature sensor and OS100-MB mounting bracket, \$175 + 20 = \$195.



IR sensor head.

AVAILABLE FOR FAST DELIVERY!

For Complete Details Visit omega.com/ir-usb



Wireless Infrared Thermometers

Built-In Dot/Circle Switchable Laser Sighting, Thermocouple Input and Close Focus Models

WIRELESS
OMEGASCOPE®
OS530E
Starts at
\$295



- ✓ Built-In **Wireless** Measurement
- ✓ Built-In Patented Laser Sighting is Switchable Between Laser Dot and Circle Patterns
- ✓ New Series Includes Built-In Distance Measurement, Close-Focus, and High-Resolution Models
- ✓ Models Available with Temperature Ranges from -23 to 871°C (-10 to 1600°F)

With a combination of powerful features, the portable and rugged OS530E Series infrared thermometers offer solutions for many non-contact temperature measurement applications. Emissivity adjustable from 0.100 to 1.00, the OS530E series provides versatility when measuring a variety of surfaces.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)			
Model No.	OS530LE-(t)	OS532E-(t)	OS534E-(t)
Price	\$295	\$450	\$650

† Insert "W9" for 915 MHz (USA/Canada) or "W8" for 868 MHz (CE models). All units come complete with mini-tripod, software, carrying case, output cable, 4 "AA" batteries (2 sets included) and operator's manual.

Ordering Example: OS530LE-W9, wireless handheld infrared thermometer (USA/Canada) with built-in Laser Circle to Dot Switchable feature, \$295.



OS534E-W9, \$650.

PATENTED

For Complete Details Visit omega.com/os530e-w9

TEMPERATURE

High-Performance Infrared Thermometer

With Patented Circle/Dot Laser Sighting and **Wireless** USB Interface

OS-DT8855W
\$279



- ✓ Data Logger with Built-In Memory Storing up to 20 Readings

- ✓ Wireless USB Interface (RF 915 MHz for USA, Canada and Mexico)
- ✓ Wireless Transmission Distance 15 m (49.2')

The high performance, handheld infrared thermometer is a non-contact temperature measurement instrument that features a laser circle/dot sight.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No	Price	Description
OS-DT8855W	\$279	Handheld infrared thermometer 30:1 field of view

Comes complete with hard carrying case, mini-tripod, AC power supply, 9V battery, one Type K thermocouple, USB wireless data receiver, PC software, probe lead adaptors, and operator's manual.

Ordering Example: OS-DT8855W, handheld infrared thermometer with patented laser circle sighting, backlit LCD, 30:1 field of view, \$279. OCW-3, OMEGACARE™ extends standard 1-year warranty to a total of 4 years (\$69), \$279 + 69 = \$348.



PATENTED

For Complete Details Visit omega.com/os-dt8855w

OS-DT8855W, \$279, shown smaller than actual size.

To Order, Call **1-800-82-66342** or Shop Online at omega.com



Long Range Handheld High-Performance Infrared Thermometer

OMEGASCOPE®
OS534E-LR/
OS523E-LR Series

Starts at

\$995



PATENTED



- ✓ Rugged, High-Performance Design
- ✓ Long Range 110: 1 Optical Field of View
- ✓ Temperature Ranges to 1370°C (2500°F)
- ✓ Built-In Laser Sighting Dot/Circle Switchable

- Optional
- ✓ RS232 Output with Free Data Logging Software
 - ✓ Real Time Data Storage and Data Logging
 - ✓ Analog Output Standard
 - ✓ Distance-Measuring Option
 - ✓ Sighting Scope Standard

OMEGASCOPE® OS534E-LR with sighting scope, \$995.

For Complete Details Visit omega.com/os534e-lr

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
OS523E-LR	\$1295	High temperature, long range high-performance infrared thermometer 0 to 2500°F
OS534E-LR	995	Long range high-performance infrared thermometer -10 to 1600°F

Comes complete with large, hard carrying case OS520-SC-RCC, mini-tripod, 4 "AA" size lithium batteries, software CD, analog cable, RS232 cable, sighting scope, and operator's manual.

Add "-DM" for built-in distance measurement and add \$75 to price.

Sighting scope is factory installed and aligned, not field installable.

Ordering Example: OS523E-LR, OMEGASCOPE® infrared thermometer with factory-installed sighting scope, \$1295. OCW-3, OMEGACARE™ extends standard 2-year warranty to a total of 5 years (\$298), \$1295 + 298 = \$1593.

Industrial Infrared Thermometer Non-Contact Temperature Measurement with Integral Display and Analog Output

OS550A Series

Starts at

\$495



Optional

- ✓ Temperature Ranges up to 1370°C (2500°F)
- ✓ Voltage or Current Analog Outputs
- ✓ Available with NEMA 4 Plastic or Aluminum Enclosure or OEM Bare Bones Version
- ✓ RS232 with Free Data Logging Software
- ✓ 6 Optical Fields of View to Choose From

Industrial, high performance, economical transmitter package with a wide choice of temperature ranges, optical fields of view and analog outputs to feed directly to panel meters, recorders, temperature/process controllers, data loggers, data acquisition systems or other process instrumentation.

OS551A-V1-2, \$495, shown smaller than actual size.

For Complete Details Visit omega.com/os550a

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

NEMA 4 Rated Plastic Enclosure				
Model No.	Price	Range	Analog Output	RS232/PC Software
OS551A-MA-*	\$495	-23 to 400°C (-10 to 750°F)	4 to 20 mA	—
OS551A-V1-*	495	-23 to 400°C (-10 to 750°F)	0 to 5 Vdc	—
OS552A-MA-*	550	-23 to 538°C (-10 to 1000°F)	4 to 20 mA	Std
OS552A-V1-*	550	-23 to 538°C (-10 to 1000°F)	0 to 5 Vdc	Std
OS553A-MA-*	650	-23 to 871°C (-10 to 1600°F)	4 to 20 mA	Std
OS553A-V1-*	650	-23 to 871°C (-10 to 1600°F)	0 to 5 Vdc	Std

*Six optical range codes available online.

To order with longer sensor head cable, up to 15 m (50'), add suffix "-(†)FT" to model number, and add \$1/ft for each additional foot over 4.5 m (15'). † Specify length in feet.

Ordering Example: OS551A-MA-2-35FT, OS551 with current output, 0.5 at 76 mm (3") FOV, 11 m (36") sensor head cable, \$495 + 20 = \$515. OCW-3, OMEGACARE™ extends standard 2-year warranty to a total of 5 years (\$128), \$515 + 128 = \$643.

High Temperature Industrial Infrared Thermometer

Non-Contact Temperature Measurement with Integral Display and Analog Output

OS555A Series Starts at

\$800



Optional

- ✓ Measure from 538 to 2482°C (1000 to 4500°F)
- ✓ See Thru Glass Window Applications
- ✓ 1% Rdg Accuracy
- ✓ 110:1 Field of View
- ✓ Voltage/Current Analog Output
- ✓ Fast 100 ms Response Time
- ✓ Data Storage and Logging
- ✓ RS232 Communications-Free PC Data Logging Software Included

For Complete Details Visit omega.com/os555a

OS555A-V1, \$850, shown smaller than actual size.



MOST POPULAR MODEL HIGHLIGHTED!

To Order (Specify Model Number)		
Model No.	Price	Electronics Enclosure
OS555A-(*)	\$850	Plastic, NEMA 4 (IP65)
OS555AM-(*)	890	Aluminum, NEMA 4 (IP65)
OS555A-(*)-BB	800	No enclosure, for OEM applications

Comes complete with operator's manual.

* Specify analog output signal: "MA" for 4 to 20 mA, "V1" for 0 to 5 Vdc or "MV" for 1 mV/degree.

To order with longer sensor head cable, up to 15 m (50"), add suffix "-(†)FT" to model number, and add \$1/ft for each additional foot over 15". † Specify length in feet.

Ordering Example: OS555A-V1, infrared thermometer with 538 to 2482°C (1000 to 4500°F) range, 110 to 1 field of view, 0 to 5 Vdc output, \$850. OCV-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years (\$153), \$850 + 153 = \$1003.

High Speed Industrial Fiber Optic Infrared Transmitter

OS4000 Series Starts at

\$1495



- ✓ Temperature Ranges From 100 to 1600°C (212 to 2912°F)
- ✓ Very Fast Response Time of 1 msec
- ✓ 3 Standard Optical Field of Views
- ✓ 4 Standard Analog Inputs
- ✓ RS232 with Free Data Logging Software

The OS4000 Series offers many standard features such as adjustable emissivity, linear analog output, high and low alarm voltage output, RS232 PC interface, built-in laser sighting, and more.

For Complete Details Visit omega.com/os4000_series

OS4001-V1 transmitter, \$1495, shown smaller than actual size.

L1-2-6-3, lens probe assembly, \$800, sold separately.



Small Spot Size!

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
OS4001-V1-(*)	1495	Infrared fiber optic transmitter, 0 to 5 Vdc output
OS4001-MA-(*)	1495	Infrared fiber optic transmitter, 4 to 20 mA output

Comes complete with operator's manual, PC interface software CD, and power output cable.

* Relay option available. To order with two built-in relays with contact closure output, add suffix "AL" to model number and \$100 to price.

Ordering Example: OS4001-MA-AL, infrared fiber optic transmitter with 4 to 20 mA analog output and two built-in relays, \$1495 + 100 = \$1595.



Hot/Cold Benchtop Dry Block Calibrator

For Complete Details Visit omega.com/cl1500

CL1500 Series
\$1995
 All Models



- ✓ Operates from -5 to 125°C (23 to 257°F) at 23°C (73°F) Ambient
- ✓ Standard and Metric Well Designs Available
- ✓ 230 Vac Models CE Marked
- ✓ RS232 Communications and **FREE** Software (Requires Windows PC)



CL1500 calibrator, \$1995, with HHM290 thermometer, \$175 and KTSS-14U-12-SMPW-M probe, \$25, shown smaller than actual size.

SUPERMETER®

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
CL1500	\$1995	Hot/cold dry block calibrator, 1/16, 1/8, 5/32, 3/16, 1/4, and 3/8" dia wells
CL1500M	1995	Hot/cold dry block calibrator, 1.5, 2, 3, 4.5, 6 and 8 mm dia wells

To order with 230 Vac power, add suffix "-230" to model number, no additional cost.

Comes complete with power cord, RS232 cable, software, NIST-traceable calibration certificate at 0, 38, 100°C (32, 100, 212°F), and operator's manual.

Ordering Example: CL1500, hot/cold dry block calibrator, \$1995. OCW-2, OMEGACARESM extends standard 1 year warranty to a total of 3 years (\$178), \$1995 + 178 = \$2173.

High Temperature Dry Block Calibrator

FREE Software Included!



For Complete Details Visit omega.com/cl1201

CL1201
\$5995

CL1201, \$5995, shown smaller than actual size.



- ✓ Wide Temperature Range 400 to 1200°C (752 to 2192°F)
- ✓ Highly Accurate ±3°C (±6°F) Entire Range and Excellent Stabilities to Within ±0.1°C (±0.2°F)
- ✓ Calibrates Thermocouples and RTD's
- ✓ Interchangeable Test Wells

AVAILABLE FOR FAST DELIVERY!

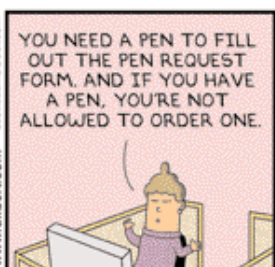
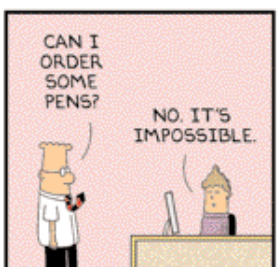
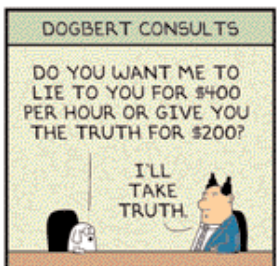
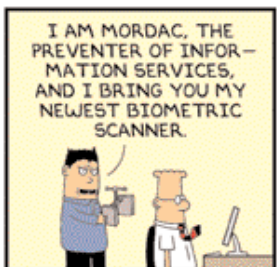
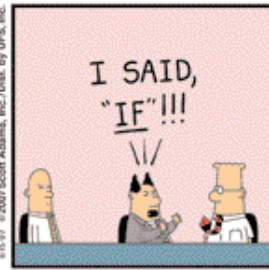
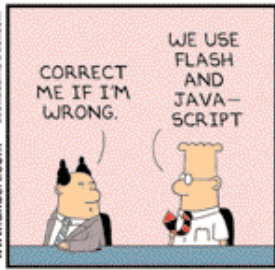
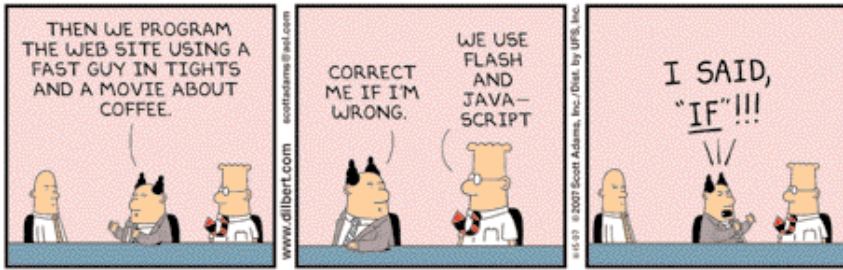
To Order (Specify Model Number)

Model No	Price	Description
CL1201	\$5995	High temperature block calibrator, 120 Vac, no insert
CL1201-230V	5995	High temperature block calibrator, 230 Vac, no insert
CL1200-HC	495	Hard carrying case

Comes complete with software and operator's manual.

Ordering Example: CL1201 high temperature block calibrator, 120 Vac, CL1200IB-C insert, 1/8, 1/4, 3/16, 5/16, 3/8" and CL1200CB-C ceramic block insulator \$5995 + 375 + 83 = \$6453. OCW-2, OMEGACARESM extends standard 3-year warranty to a total of 5 years (\$250) \$5995 + 250 = \$6245.

CL1200IB-E, \$375, test well insert.



Dilbert © United Feature Syndicate

4 Channel Data Logger

HH1384
\$375

Visit omega.com/hh1384



Temperature Chart Recorder

CT89 Series
\$345
All Models

MADE IN
USA

Visit omega.com/ct89



Printing Handheld Thermometer

HH1304P
\$599

Visit omega.com/hh1304p



SUPERMETER® with Patented Laser Sighting Non-Contact Temperature Measurement

HHM290
\$175



- ✓ Built-In Infrared Pyrometer with Switchable Laser Dot/Circle Sighting
- ✓ Adjustable Emissivity with 10:1 Field of View

- ✓ Full-Function Auto-Ranging Digital Multimeter
- ✓ Measures Capacitance, Inductance, and Frequency
- ✓ Dual Thermocouple Input

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
HHM290	\$175	Digital multimeter/infrared thermometer with laser sighting dot/circle switch

Comes complete with portable mini-tripod, rubber boot, 2 Type K beaded wire thermocouples, 6 "AA" alkaline batteries, test leads and operator's manual.

Ordering Example: HHM290, digital multimeter/infrared thermometer with laser sighting, HHM290-SC, soft carrying case, KTSS-HH, general purpose immersion probe, CAL-3-IR, NIST-traceable calibration, \$175 + 15 + 29 + 125 = **\$344**. OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years (\$61), \$344 + 43 = **\$387**.

3 Meters In 1

For Complete Details Visit omega.com/hhm290



PATENTED

For Complete Details Visit omega.com/cl1600

Surface Probe Tester

CL1600 Series
\$2995
All Models



- ✓ Rugged, Compact and Portable
- ✓ Temperature Range From 35 to 450°C (95 to 842°F)
- ✓ Highly Stable
- ✓ Fast Heat Up
- ✓ Built-In Digital PID Auto-Tune Temperature Controller with Temperature Readout
- ✓ RS232 Output Standard
- ✓ NIST Traceable Calibration Certificate Included

Large Usable Hot Surface Area
[120.45 cm²
(18.6 in²)]

The OMEGA® CL1600 surface probe tester is a system designed to check and verify surface probe readings across a wide range of temperatures, from 35 to 450°C (95 to 842°F). The CL1600 allows periodic in-house testing and provides preventive maintenance for all your surface sensors.



CL1600-120VAC, \$2995, shown smaller than actual size.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

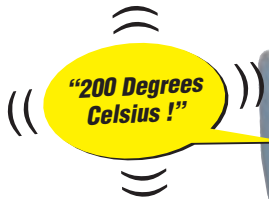
Model No.	Price	Description
CL1600-120VAC	\$2995	Surface probe tester, 120 Vac
CL1600-240VAC	2995	Surface probe tester, 240 Vac

Comes complete with 2 power cords; one for each 120 Vac operation and one with stripped leads for 240 Vac operation, NIST calibration certificate, and operator's manual.

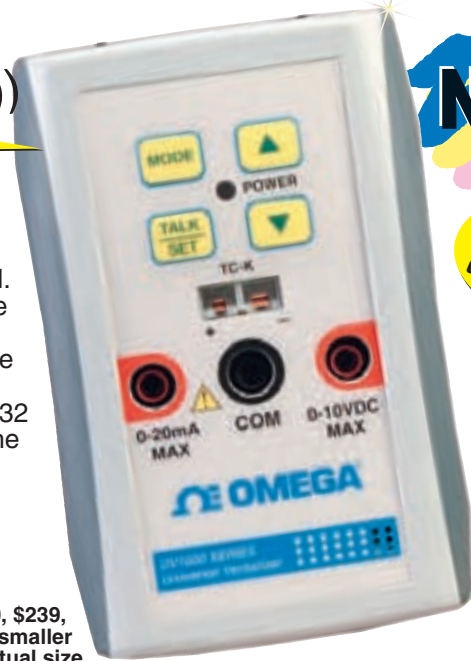
Ordering Example: CL1600-120VAC, surface probe tester, HH-22A, handheld meter, and 88106K, right angle surface probe, \$2995 + 225 + 190 = **\$3410**. OCW-1, OMEGACARESM extends standard 1-year warranty for total of 2 years (\$250), \$2995 + 250 = **\$3245**.

Universal Verbalizer Available in English or Spanish Versions OMEGASAYS®

UV1000
\$239
All Models



The UV1000 is a perfect solution for verbalizing any type of control signal. This device can verbalize 0 to 10 Vdc, 0 to 20 mA, and Type K thermocouple inputs. Configure the verbalizer using the RS232 PC interface to specify the input range, engineering scale, engineering unit, and high and low alarm set-points.



For Complete Details Visit omega.com/uv1000

PATENTS PENDING

It Talks!

- ✓ Verbalizes Voltage, Current, and Type K Thermocouple Inputs in Engineering Units
- ✓ Portable, Handheld High Performance Design
- ✓ Built-In Speaker and Earphone Jack
- ✓ Over 100 Built-In Engineering Units
- ✓ RS232 Interface Allows User to Configure the Unit

CAUTION! – This product is not intended for medical use or use on humans

UV1000, \$239, shown smaller than actual size.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
UV1000	\$239	Universal verbalizer, English
UV1000-S	239	Universal verbalizer, Spanish
OM-NOMAD-CP9	10	RS232 cable for PC, 9-pin female connector
OM-CONV-USB	15	RS232 (9-pin male connector) to USB converter cable

Comes complete with operator's manual, Type K beaded thermocouple, test leads, earphone cable, RS232 cable, CD program, 2 "AA" size batteries, AC adaptor, and table top stand.

Ordering Example: UV1000, universal verbalizer, English, \$239. OCW-3, OMEGACARE™ extends standard 1-year warranty to a total of 4 years (\$59), and OM-CONV-USB cable \$15, \$239 + 59 + 15 = \$313.

High Accuracy Thermocouple and RTD Thermometers

HH100 Series
Starts at
\$250



- ✓ Dual K/J/T/E/R/S/N Input (HH127)
- ✓ Dual 2-, 3- and 4-Wire RTD Input (HH126)
- ✓ One RTD and One Thermocouple Input (HH176)
- ✓ Large Easy to Read LCD Display T1, T2, T1-T2

For Complete Details Visit omega.com/hh100

HH127, \$250.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
HH126	\$300	Handheld thermometer dual input RTD with data logging
HH127	250	Handheld thermometer dual input thermocouple with data logging
HH176	360	Handheld thermometer thermocouple and RTD input with data logging

Comes complete with 4 "AAA" alkaline batteries, software CD, 1.8 m (6") infrared to USB data cable, rubber boot, and Type K thermocouple or RTD cable (one per channel dependent on model), and operator's manual.

Ordering Example: HH126, handheld thermometer, \$300. OCW-3, OMEGACARE™ extends standard 1-year warranty to a total of 4 years (\$90), \$300 + 90 = \$390.



SPHT-K-6, probe, \$45, sold separately.

TEMPERATURE



Programmable Universal Verbalizer 1/8 DIN Panel Meter OMEGASEZ®

For Complete Details Visit
omega.com/uv1000-pm

UV1000-PM
\$285



It Talks

Loudspeaker Included!

- ✓ Verbalizes/Displays Analog Inputs— 0 to 10 Vdc, 0 to 20 mA or 4 to 20 mA, and Types K, J, T, and R Thermocouple Input in Engineering Units
- ✓ Scaling Analog Inputs
- ✓ User-Friendly, Simple to Configure
- ✓ 2 Alarm Outputs with Adjustable Deadband

UV1000-PM, \$285, shown smaller than actual size.

CAUTION! – This product is not intended for medical use or use on humans

PATENT PENDING

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
UV1000-PM	\$285	Universal verbalizer, English, with 2 relays: form "C" SPDT 3 A @ 30 Vdc, 3 A @ 250 Vac, external loudspeaker

The new UV1000-PM universal verbalizer is an innovative panel meter and creative solution for process monitoring almost any type of measurement with speech/display/alarming features.

Comes complete with operator's manual, external speaker, and CD with configuration program.
* No CE compliance above 60 Hz
Ordering Example: UV1000-PM, universal verbalizer, English, \$285. OCW-3, OMEGACARE™ extends standard 1-year warranty to a total of 4 years (\$71) \$285 + 71 = \$356.

iSeries MONOGRAM® 1/8 DIN Temperature, Process, Strain Meters and PID Controllers

DPI8 Meter Starts at **\$240**
CNI8 Controller Starts at **\$310**

For Complete Details Visit
omega.com/cni8_series and
omega.com/dpi8_series

1/8



- ✓ High Quality
- ✓ High Accuracy ±0.5°C (0.9°F), 0.03% Reading
- ✓ User-Friendly, Simple to Configure
- ✓ Free Software
- ✓ Full Autotune PID Control
- ✓ Universal Inputs: Thermocouple, RTD, Process Voltage/Current, Strain
- ✓ Totally Programmable Color Displays, Standard
- ✓ Built-In Excitation, Standard

- ✓ 2 Control or Alarm Outputs, Choice of dc Pulse, Mechanical Relays, Analog Voltage and Current

CNI833, \$310, shown smaller than actual size.

The DPI8/CNI8 is a 1/8 DIN size (96 x 48 mm) Digital Panel Meter featuring the big iSeries color-changing display. The digits are twice the size of typical 1/8 DIN panel meters. The iSeries meters feature the only LED displays that can be programmed to change color between **GREEN**,

AMBER, and **RED** at any set point or alarm point.
The "DPI8/CNI8" model is available as an extremely accurate programmable digital panel meter with no outputs or with dual outputs for controlling or alarming functions. Other options include isolated programmable analog output, serial communications, MODBUS® and Ethernet.

To Order, Call **1-800-82-66342** or Shop Online at omega.com

DPI32 Meters Starts at **\$150**
CNI32 Controllers Starts at **\$195**



CNI32, \$195, shown actual size.

- ✓ High Accuracy $\pm 0.5^{\circ}\text{C}$ (0.9°F), 0.03% Reading
- ✓ Totally Programmable Color Displays (Standard)
- ✓ User-Friendly, Simple to Configure
- ✓ Free Software, Active X Controls
- ✓ Full Autotune PID Control
- ✓ Universal Inputs: Thermocouple, RTD, Process Voltage/Current, Strain

- ✓ RS232 and RS485 Serial Communications in One Instrument (Optional)
- ✓ Built-in Excitation, 24 Vdc, Standard
- ✓ Temperature Stability $\pm 0.04^{\circ}\text{C}/^{\circ}\text{C}$ RTD and $\pm 0.05^{\circ}\text{C}/^{\circ}\text{C}$ TC @ 25°C (77°F)
- ✓ NEMA-4 (IP65) Front Bezel

The DPI32/CNI32 is the iSeries meter (DPI32) and controller (CNI32) in the extremely compact and increasingly popular 1/32 DIN size. The DPI32/CNI32 is the most sophisticated and accurate instrument available in the small 1/32 DIN package, yet is still easy to configure. The DPI32/CNI32 and DPI52/CNI52 introduce a number of unique features not yet found on any other 1/32 DIN instrument.

For Complete Details Visit omega.com/cni32_series and omega.com/dpi32_series

TEMPERATURE

DPI16 Meters Starts at **\$180**
CNI16 Controllers Starts at **\$225**



CNI16, \$225, shown actual size.

- ✓ High Accuracy $\pm 0.5^{\circ}\text{C}$ (0.9°F), 0.03% Reading
- ✓ Totally Programmable Color Displays (Standard)
- ✓ User-Friendly, Simple to Configure
- ✓ Free Software
- ✓ Full Autotune PID Control
- ✓ Universal Inputs: Thermocouple, RTD, Process Voltage/Current, Strain
- ✓ Embedded Ethernet Connectivity
- ✓ RS232 and RS485 Serial Communications in One Instrument (Optional)

- ✓ Built-in Excitation, 24 Vdc, Standard
- ✓ Analog Output Selectable as a Control Output or as a Calibrated Retransmission of Process Variable

The DPI16/CNI16 is the popular 1/16 DIN size (48 mm square) meter or controller. The meter (model "DPI16") displays the process value and has no control outputs.

The CNI16 is the first 1/16 DIN controller with the option of both RS232 and RS485 in one instrument with both MODBUS[®] serial protocol and the straightforward ASCII protocol. And of course the CNI16 is the first 1/16 DIN Controller that can connect directly to an ethernet network and features an embedded web server.

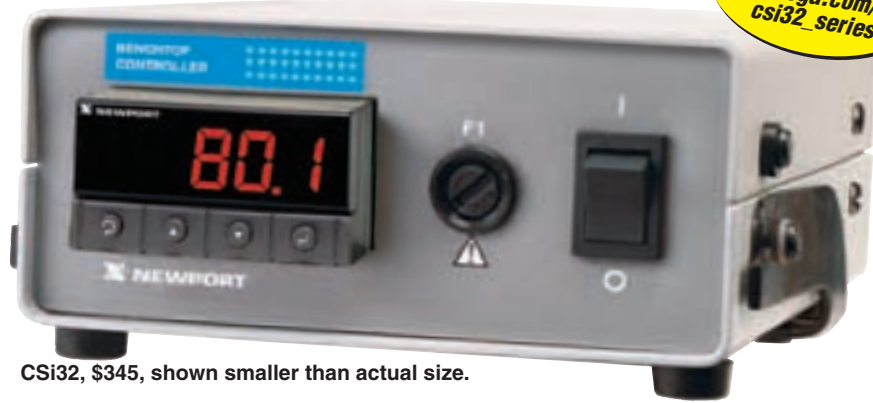
For Complete Details Visit omega.com/cni16_series and omega.com/dpi16_series



Miniature Benchtop Controllers

For Complete Details Visit omega.com/csi32_series

CSi32 Series Starts at **\$345**



CSi32, \$345, shown smaller than actual size.

- ✓ Rugged Metal Benchtop Enclosure
- ✓ 4-Digit Display, 1 or 0.1° Resolution
- ✓ Built Around OMEGA's Award-Winning Patented iSeries Controllers
- ✓ 5-Year Warranty
- ✓ Simple to Configure and Use
- ✓ Full Autotune PID Heat-Cool Control
- ✓ Single Ramp and Soak Capability

The CSi32 Series is our newest line of benchtop controllers. They feature a 1/2 DIN size (96 x 48 mm) digital panel controller in a rugged benchtop metal enclosure. The controller used is Newport's award winning and patented iSeries with color-changing

display. The iSeries meters feature the only LED displays that can be programmed to change color between **GREEN**, **AMBER**, and **RED** at any setpoint or alarm point.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Add'l Price	Description
CSi32(*)	\$345	Benchtop controller

* Insert Input Code: J, K, T, E, R, S, N, RTD, V, or MA from Input and Range Table, available online. Comes complete with operator's manual, configuration software, 120 Vac power cord and input connector.

Ordering Example: CSi32K-C24, benchtop controller, Type K input and RS232/485 communications option, \$345 + 95 = \$440.

1/8 DIN Graphic Display Meter for Process and Temperature Measurement with Optional Alarm Relays, Analog Output, and Built-In Wireless Receiver

XY1700 Series Starts at **\$255**



XY™ SERIES

- ✓ Universal Model for Thermocouples, RTD and Process (Vdc and Current)
- ✓ Monochrome, High Resolution Graphic Display with High-Intensity Backlighting
- ✓ Display Can Be Configured for Bar Graph, Charting or Standard Segment Format
- ✓ 1/8 DIN Enclosure



XY1701, graphic panel meter shown in charting mode, \$255.

For Complete Details Visit omega.com/xy1701

PATENT PENDING

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
XY1701	\$255	Graphic panel meter
XY1701-AR	295	Graphic panel meter with alarm relays and analog output
XY1701-230VAC	255	Graphic panel meter (230 Vac)
XY1701-AR-230VAC	295	Graphic panel meter with alarm relays and analog output (230 Vac)

Comes complete with operator's manual.

For models with built-in wireless receiver, add "-W" to model number and \$45 to price.

Ordering Example: XY1701, 1/8 DIN graphic panel meter, \$255.

RTD Temperature Transmitter

316 Stainless Steel Construction Ideal for Wash-Down, Outdoor, Sanitary, or Marine Environments

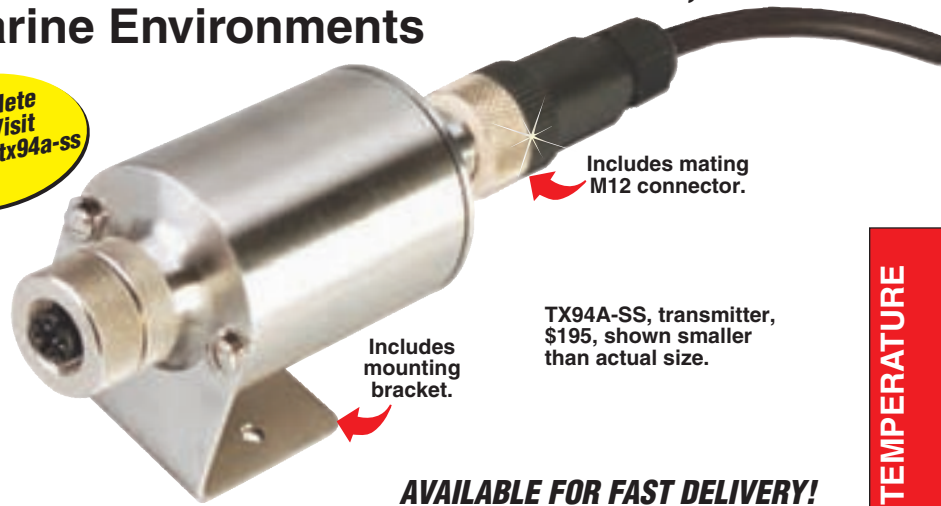
TX94A-SS Series
\$195
 All Models

For Complete Details Visit
omega.com/tx94a-ss



- ✓ Splash-Proof 316 SS Housing with NEMA 4 (IP67) Rating
- ✓ Compact Design Attaches Directly to Pt100 Sensors with M12 Connecting Cable
- ✓ 2-Wire, 4 to 20 mA Output
- ✓ ±0.1% FS Accuracy

The TX94A-SS temperature transmitters are high performance stainless steel industrial transmitters designed for direct connection to most CIP (clean-in-place) sanitary Pt100 probes that incorporate an M12 style connection. Available in four temperature ranges, the TX94A-SS has a standard 4 to 20 mA output signal.



AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Input Range	
TX94A-SS-M12(*)-1	\$195	-40 to 49°C	-40 to 120°F
TX94A-SS-M12(*)-2	195	-18 to 93°C	0 to 200°F
TX94A-SS-M12(*)-3	195	-18 to 149°C	0 to 300°F
TX94A-SS-M12(*)-4	195	-18 to 260°C	0 to 500°F

(*) Specify probe/sensor connection; "M" for male, or "F" for female (compatible with OMEGA® sanitary Pt100 probes).

Comes complete with mating connector, mounting bracket and operator's manual.

Ordering Example: TX94A-SS-M12F-3, temperature transmitter with Pt100 input, -18 to 149°C (0 to 300°F) range, 4 to 20 mA output, M12 female connector for probes (input) and M12 male connector for cable (output), with PSR-24S screw terminal power supply, and M12C-PVC-4-S-F-5, PVC jacketed connecting cable with M12 female connector, \$195 + 60 + 15.50 = \$270.50.

Connector/Transmitter

For Sanitary Pt100 Probes with M12 Connector

Splash-Proof Body and Integral Cable

The Smart Connector™

SPRTEX-SS Series
\$95
 All Models

For Complete Details Visit
omega.com/sprtx-ss



- ✓ Miniature Design Attaches Directly to Pt100 Sensors with M12 Connector
- ✓ 2-Wire, 4 to 20 mA Output
- ✓ ±0.5% FS Accuracy
- ✓ Upscale Break Protection
- ✓ Encapsulated Signal Conditioner with Water Tight Connector Housing
- ✓ Integral 4 m (12') Cable



SPRTEX-SS1-M12, \$95, shown actual size.

The SPRTEX-SS temperature transmitters are high performance low cost industrial transmitters designed for direct connection to most CIP (clean-in-place) sanitary Pt100 probes with an M12 style

connection. The SPRTEX-SS transmitter attaches directly to a Pt100 probe with an M12 connection, such as the OMEGA® PRS-S-M12C Series, and provides a standard 4 to 20 mA output signal.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Input Range	
SPRTEX-SS1-M12	\$95	-99 to 208°C	-146 to 406°F
SPRTEX-SS2-M12	95	2 to 569°C	36 to 1056°F

Comes complete with operator's manual.

Ordering Example: SPRTEX-SS1-M12, temperature transmitter with Pt100 input, -99 to 208°C (-146 to 406°F) range, 4 to 20 mA output, M12 female connector for probes (input) and 4 m (12') cable with PSR-24S, screw terminal power supply, \$95 + 60 = \$155.

To Order, Call **1-800-82-66342** or Shop Online at omega.com

TEMPERATURE



Visit omega.com/dilbert

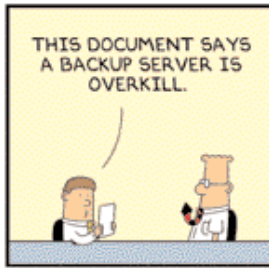
for your daily dose of DILBERT!

DILBERT® by Scott Adams

Printing Handheld RH/ Temperature Meter

RH1362P
\$630

Visit
[omega.com/
rh1362p](http://omega.com/rh1362p)



Infrared Thermometer with Relative Humidity Measurement

OS418L
\$165



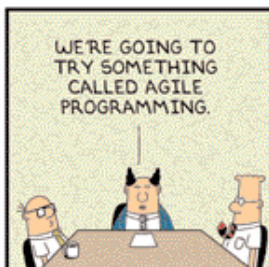
Visit
[omega.com/
os418l](http://omega.com/os418l)



2-Wire Loop Powered Display

TX03
\$90

Visit
[omega.com/
tx03](http://omega.com/tx03)



Dilbert © United Feature Syndicate

Digital RTD Thermometer

316 SS Enclosure for Sanitary, Wash-Down, and Marine Applications



DTG-RTD100 Series
Starts at
\$395



Thermocouple Models Available. For Complete Product Information Visit omega.com/dtg-tc100

Large 25 mm (1") Digits

Antenna connection for wireless option.

Magnetic stylus (included).

- ✓ Large Multicolor Backlit Display with 25 mm (1") Digits Readable From Over 10.7 m (35')
- ✓ Up to $\pm 0.2^{\circ}\text{C}$ ($\pm 0.3^{\circ}\text{F}$) or $\pm 0.1\%$ Rdg Accuracy
- ✓ Connects Directly to 3-Wire Pt100 RTD Sensors
- ✓ User Scaleable 4 to 20 mA, 0 to 5 or 0 to 10 Vdc Analog Output Standard
- ✓ Powered by Internal Battery or External DC Power Supply
- ✓ Included Setup and Service Software Allows for Fast Maintenance and Calibration via USB Connection
- ✓ Wireless Transmitter Option Sends Readings to Remote Locations and Allows for PC-Based Chart Recording and Data Logging
- ✓ Low Power Operation and Sleep Mode for Long Battery Life
- ✓ Display Backlight Changes from Green to Blue for Low Alarm and from Green to Red for High Alarm

For Complete Details and Ordering Information Visit omega.com/dtg-rtd100

DTG-RTD100-PRS-3-100-AS-300-D1-W, \$590, smaller than actual size.

TEMPERATURE



Integral sensor.

Wireless models include FREE monitoring, charting and data logging software for your PC!

New security feature uses magnetic stylus (included) for keypad activation. No accidental button presses. Perfect for dirty hands or if wearing gloves

Integral Sensor Options

Attach the DTG-RTD100 to a 3-A approved PRS-3-100-A-S-0300-D1-M12 standard duty sensor for a 1/4" diameter, 3" long probe with 1 1/2" 16AMP mounting flange. Lengths of 4, 5 and 6" are also available. Temperature range -50 to 200°C (-58 to 392°F).

Ordering Example: DTG-RTD100-PRS-3-100-A-S-0300-D1, comes complete with thermometer and 3" L integral sensor, \$490.

Attach the DTG-RTD100 to a 3-A approved PRS-3-100-A-H-0300-D1-M12 sensor for a heavy duty stepped probe (3/16" to 3/8" dia), 3" long with 1 1/2" 16AMP mounting flange. Lengths of 4, 5 and 6" are also available. Temperature range -50 to 200°C (-58 to 392°F).

Ordering Example: DTG-RTD100-PRS-3-100-A-H-0400-D1, comes complete with thermometer and 4" L integral sensor, \$520.

To Order, Call **1-800-82-66342** or Shop Online at omega.com



Circular Chart Recorders

Wireless Temperature/Relative Humidity

SUPERRECORDER™

CTXL-TRH-W
\$895
All Models



Optional

CTXL-PT remote wireless transmitter, included.



CTXL-TRH-W-W9, \$895.

- ✓ Record Temperature/Humidity with Remote Wireless Probe
- ✓ RF Range 90 m (295') Line of Sight and 33 m (108') Indoors
- ✓ 1, 7 or 32 Day Recording
- ✓ Easy to Read Dual Channel Backlit LCD Readout
- ✓ Convenient Front Panel Programming/Operation
- ✓ Data Logging PC Software Included

PATENTS PENDING

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description	Color
CTXL-TRH-W-(*)	\$895	Wireless temperature/RH recorder	White
CTXL-TRH-G-(*)	895	Wireless temperature/RH recorder	Gray

* Specify wireless type: "W9" for USA/Canada (915 MHz) or "W8" for Europe (868 MHz). To retrofit a CTXL-TRH recorder with wireless capability, one transmitter (CTXL-PT) and one receiver (CTXL-PR) are required.

Each unit comes complete with wireless transmitter, receiver, 120 assorted double-sided charts, 2 pen sets, wall mount kit, 4 "D" cell batteries, RS232 cable and adaptor, software CD, universal ac adaptor, and operator's manual.

Ordering Example: CTXL-TRH-W-W9, white temperature/relative humidity recorder with remote/wireless probe, CT485-CWF chart paper (100 double sided sheets, 7 day, °F), and OCW-3, OMEGACARE™ extends standard 2-year warranty to a total of 5 years, \$895 + 19 + 232 = \$1137.

Dual Input Thermocouple Universal Recorder

For Complete Details Visit omega.com/ctl

CTXL-DTC
\$795
All Models



Optional

PATENTS PENDING SUPERRECORDER™



CTXL-DTC, \$795.

- ✓ User Selectable for J, K or T Type Thermocouple Input
- ✓ Universal Thermocouple Connector Compatible with Standard and Miniature Connectors
- ✓ Up to ±1.5°C (2.7°F) Display Accuracy
- ✓ Data Logging PC Software Included

The CTXL-DTC is a dual input thermocouple recorder, both input channels are set to the same calibration; the user can select either J, K or T type thermocouple calibration. Input connections are via UST type universal thermocouple connector that is compatible with both standard (type OST) and miniature (type SMP) thermocouple connectors.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description	Color
CTXL-DTC-W	\$795	Dual input thermocouple recorder	White
CTXL-DTC-G	795	Dual input thermocouple recorder	Gray

Each unit comes complete with two J, K, T thermocouples, 120 assorted double-sided charts, 2 pen sets, wall mount kit, 4 "D" cell batteries, RS232 cable and adaptor, software CD, universal ac adaptor, and operator's manual.

Ordering Example: CTXL-DTC-G, gray dual thermocouple input recorder with CTXL-DTC-R1-CW chart paper [100 double-sided sheets, 7 day, -40 to 560°F (-40 to 1040°F range)], \$795 + 19 = \$814.

Dual Input Process Circular Chart Recorder



CTXL-DPR
\$795

All Models



- Models Available for Voltage or Current Input
- Voltage Models Selectable for 1, 5 or 10V Inputs
- Current Models Selectable for 0 to 20 or 4 to 20 mA Inputs
- ±1% FS Display Accuracy
- Windows® Based PC Data Logging Software Included
- Benchtop or Wall Mount with Built-In Chart Lights
- Built-In Excitation to Power External Transmitters

For Complete Details Visit omega.com/ctxl

For Our Full Selection of OMEGA Pressure Transducers Visit omega.com/pressure



CTXL-DPR recorder, \$795.

PATENTS PENDING

AVAILABLE FOR FAST DELIVERY!

The CTXL-DPR is a dual input process recorder, available with either voltage or current inputs. Both input channels are set to the same input range; the voltage input model has selectable ranges of 0 to 1, 0 to 5 and 0 to 10V, while the current model is selectable between 0 to 20 and 4 to 20 mA ranges. Standard charts are scaled for 0 to 100%; the user can also scale the chart paper to show a portion of the full range.

To Order (Specify Model Number)

Model No.	Price	Description	Color	Input
CTXL-DPR-W-V	\$795	Dual input process recorder	White	Voltage
CTXL-DPR-G-V	795	Dual input process recorder	Gray	Voltage
CTXL-DPR-W-I	795	Dual input process recorder	White	Current
CTXL-DPR-G-I	795	Dual input process recorder	Gray	Current

Each unit comes complete with 120 assorted double-sided charts, 2 pen sets, 1.8 m (6') input cable, wall mount kit, 4 "D" cell batteries, RS232 cable and adaptor, software CD, universal ac adaptor, and operator's manual.

Ordering Example: CTXL-DPR-W-V, white dual voltage input recorder with CTXL-DPR-CW chart paper (100 double-sided sheets, 7 day, 0 to 100%), \$795 + 19 = \$814.

pH/Temperature Circular Chart Recorder

SUPERRECORDER™

CTXL-PH, \$795.

CTXL-PH
\$795

All Models



- Record pH with Automatic Temperature Compensation
- Standard BNC pH Electrode Connector
- Pt100 RTD Temperature Sensor ATC
- Benchtop or Wall Mount with Built-In Chart Lights
- Data Logging PC Software Included

For Complete Details Visit omega.com/ctxl

PATENTS PENDING

The CTXL-PH is a high accuracy pH and temperature recorder, compatible with any standard pH electrode. The CTXL-PH also measures temperature from a pH electrode with built-in PT100 RTD sensor for automatic temperature compensation for pH measurement.



pH electrode sold separately.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description	Color
CTXL-PH-W	\$795	pH/temperature recorder	White
CTXL-PH-G	795	pH/temperature recorder	Gray

Each unit comes complete with 120 assorted double-sided charts, 2 pen sets, wall mount kit, 4 "D" cell batteries, RS232 cable and adaptor, software CD, universal ac adaptor, temperature compensation resistor and operator's manual.

Ordering Example: CTXL-PH-W, white pH/temperature recorder with PHE-6510, submissible flat surface pH electrode, \$795 + 134 = \$929.

TEMPERATURE



Compact Portable Data Logger

RDXL120 Series Starts at

\$2750



- ✓ All Channel Adopt Universal Insulated Input
- ✓ Easy-to-Read Screen Display
- ✓ Data Can Be Saved at Max Speed of 100 ms
- ✓ Acquire Large Amounts of Data
- ✓ Set Temperature and Voltage Independently for Each Channel
- ✓ Easy-to-Read Wide View TFT LCD (Even Outdoors)
- ✓ Measures Temperature Changes Reliably

For Complete Details Visit omega.com/rdxl120



RDXL121-D, \$2750.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
RDXL121-D	\$2750	8-channel plug in terminals
RDXL122-D	3250	16-channel plug in terminals

Comes complete with operator's manual, lithium battery, rubber boot, AC adaptor and CD-ROM standard software.

Ordering Example: RDXL121-D, 8-channel data logger, and RDXL900, data logging software, \$2750 + 412 = \$3162. OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years (\$350), \$3162 + 350 = \$3512.

Networkable Paperless Data Acquisition System

RD8300 Series Starts at

\$2395



Optional

- ✓ 6 or 12 Universal Inputs
- ✓ Up to 4 Pulse/Frequency Inputs
- ✓ 6 or 12 Relay Outputs

RD8312, \$2695, shown smaller than actual size.

For Complete Details Visit omega.com/rd8300



AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
RD8306	\$2395	6 universal inputs, 6 math channels, 100/240 Vac, 512 MB internal memory
RD8306-ST	2420	6 universal inputs, 6 math channels, 100/240 Vac with screw terminals, 512 MB internal memory
RD8306-R6	2595	6 universal inputs, 6 math channels, 100/240 Vac, 512 MB internal memory, 6 form A relay, 0.5 A @ 200 Vdc, 2 control inputs
RD8312	2695	12 universal inputs, 6 math channels, 100/240 Vac, 512 MB internal memory
RD8312-DC	2850	6 universal inputs, 6 math channels, 12 to 24 Vdc, 512 MB internal memory
RD8312-ST	2720	12 universal inputs, 6 math channels, 100/240 Vac with screw terminals, 512 MB internal memory
RD8312-R12	2995	12 universal inputs, 6 math channels, 100/240 Vac, 512 MB internal memory, 12 form A relay, 0.5 A @ 200 Vdc, 2 control inputs

Comes complete with operator's manual.

Ordering Example: RD8306-ST, 6 universal inputs, 6 math channels, 100/240 Vac with screw terminals, 512 MB internal memory, \$2420. OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years (\$350), \$2420 + 350 = \$2770.

To Order, Call **1-800-82-66342** or Shop Online at omega.com

Portable Paperless Recorders and Data Acquisition Stations



RD-MV1000 and RD-MV2000 Series Starts at

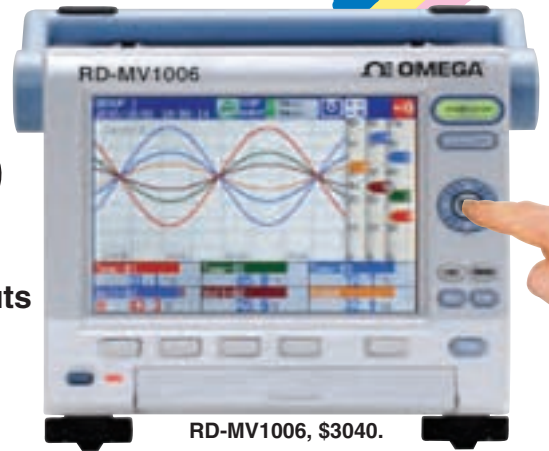
\$3040



For Complete Details Visit omega.com/rd-mv1000_2000

- ✓ Multi-Channel Universal Inputs, Up to 48 Input Channels
- ✓ Advanced Network Connectivity with Email, File Transfer, and Web Server Functions

- ✓ Isolated Channel Inputs for DC Voltage and Thermocouple Inputs
- ✓ Recorders Can Save Data Files in a Text File Format



RD-MV1006, \$3040.

TEMPERATURE

AVAILABLE FOR FAST DELIVERY!!

To Order (Specify Model Number)

Model No.	Price	Description
RD-MV1006	\$3040	6 input clamp terminal, 400 MB internal memory, CF card plus USB, 100 to 240 Vac, UL/CSA power cord
RD-MV1012	4400	12 input clamp terminal, 400 MB internal memory, CF card plus USB, 100 to 240 Vac, UL/CSA power cord
RD-MV2008	5040	8 input clamp terminal, 400 MB internal memory, CF card plus USB, 100 to 240 Vac, UL/CSA power cord
RD-MV2030	6510	30 input clamp terminal, 400 MB internal memory, CF card plus USB, 100 to 240 Vac, UL/CSA power cord

Comes complete with operator's manual on CD, power cable, quick reference guide, terminal screws and the DAQ STANDARD software (CD), CF card (128 MB). Software is compatible with Windows 2000/XP/Vista.

Ordering Example: RD-MV1012, 12 input recorder with 400 MB internal memory, CF card, USB port, UL/CSA power cord, \$4400. OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years (\$350), \$4400 + 350 = \$4750.

Multi-Input Portable Thermometer/Data Logger

RDXL8 Series Starts at

\$1900



For Complete Details Visit omega.com/rdxl8

- ✓ 8 Configurable Isolated Inputs for Thermocouples and DC Millivolts (°C/°F)
- ✓ Stores Over 1.4 x 10⁷ Data Points Per Input Channel

- ✓ Graphic Display of Each Input
- ✓ Programmable Hi or Lo Alarm for 8 Inputs

The RDXL8 has the ability to show measured values and to analyze them on its graphical display, eliminating the need to download collected data to a computer for further analysis.

AVAILABLE FOR FAST DELIVERY!!



RDXL8CD, \$2500.

To Order (Specify Model Number)

Model No.	Price	Description
RDXL8	\$1900	Multi-input thermometer/data logger, monochrome display
RDXL8CD	2500	Multi-input thermometer/data logger, color display
RDXL800-PRINTER	440	Thermal printer for RDXL8 only
RDXL800-PAPER	18	Thermal paper (2 rolls)

Comes complete with mini connector for analog input, optical RS232 to USB bridge, (8) 1.5V "AA" alkaline batteries, AC adaptor, USB cable, software CD, SD card (2 GB), (8) Type K beaded wire thermocouples, carrying case, and operator's manual on CD.

Ordering Example: RDXL8, multi-input thermometer/data logger, \$1900. OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years (\$350), \$1900 + 350 = \$2250.



Economical Video Inspection Systems

HHB200/HHB300
Starts at
\$200



- ✓ HHB200: 61 mm (2.4") Color LCD Screen for Crystal Clear Image
- ✓ HHB300: 88.9 mm (3.5") Color LCD Screen for Superb Clarity and Viewing Effect
- ✓ 12 mm (0.47") Dia Flexible Camera-Tipped
- ✓ View Findings Instantaneously
- ✓ Mirror, Magnet and Pick-Up Hook Included



For Complete Details Visit omega.com/hhb200_hhb300

Carrying case included.

HHB200, \$200.

AVAILABLE FOR FAST DELIVERY!

The borescope inspection systems have been designed as a user friendly and economical way of solving hidden problems and increasing productivity. The product has a high clarity color LCD to show clear images. It is widely used in applications such as HVAC/R building, aviation and vehicles maintenance.

To Order (Specify Model Number)		
Model No.	Price	Description
HHB200	\$200	61 mm (2.4") color LCD screen borescope
HHB300	249	88.9 mm (3.5") color LCD screen borescope

Comes complete with 1 m (3.3') flexible probe, extension tools: (mirror, magnet, pick-up hook), 9V battery, blow mold case, and operator's manual.

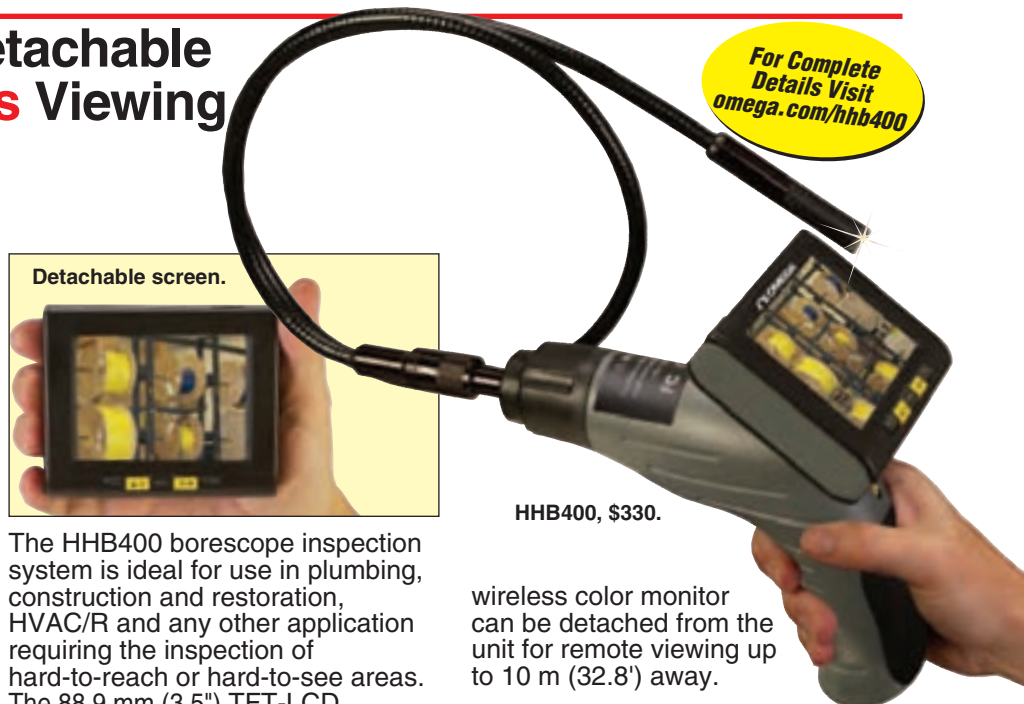
Ordering Example: HHB200, 61 mm (2.4") color LCD screen borescope, \$200.

Borescope with Detachable Screen for **Wireless** Viewing

HHB400
\$330



- ✓ 88.9 mm (3.5") Color LCD Screen
- ✓ Detachable Screen for Wireless Viewing
- ✓ 17 mm (0.67") Diameter Camera-Tipped Probe
- ✓ Probe Features a Built-In Adjustable LED Lighting
- ✓ Records in Still Photo (JPEG) and Video (AVI), or View it Live
- ✓ NTSC or PAL Compatible
- ✓ 10 Language: English, Japanese, German, Spanish, French, Italian, Chinese, Dutch, Portuguese, Russian



For Complete Details Visit omega.com/hhb400

Detachable screen.

HHB400, \$330.

wireless color monitor can be detached from the unit for remote viewing up to 10 m (32.8') away.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
HHB400	\$330	88.9 mm (3.5") color LCD screen borescope

Comes complete with MicroSD memory card, extension tools: (mirror, magnet, pick-up hook), video interconnect cable, USB cable, magnetic base stand, AC adaptor, 4 "AA" batteries, blow mold case, and operator's manual.

Ordering Example: HHB400, 88.9 mm (3.5") color LCD screen borescope, \$330.

Printing Handheld Thermometer

HH1304P
\$599



- ✓ Accepts J, K, T and E Thermocouple Inputs
- ✓ Built-In Thermal Printer for Text and Printout
- ✓ High Accuracy
- ✓ Dual Input Features Min/Max and Differential Measurements
- ✓ 0.1 Resolution in °F/°C Over Full Range
- ✓ Programmable Time Interval Setting
- ✓ Hi/Lo Alarm Settings
- ✓ Externally Powered Alarm Driver Outputs
- ✓ Real-Time Clock
- ✓ Low Battery Indicator
- ✓ Optional Power Supply

OMEGA's compact and affordable HH1304P is ideal for applications requiring display and printing of temperature measurements. Dual input features min/max, hi/lo audible alarms (with externally powered alarm driver signals) and differential measurements. This 2-channel unit accepts Type J, K, T or E thermocouple inputs, thermometers has a high accuracy and 0.1° resolution. A built-in thermal printer makes hard copies of the temperature measurements, which can be taken at selected intervals. Parameters printed are time, date, temperature, and channel number. Battery powered or optional AC adaptor.

Specifications

Environment Conditions: Altitude up to 2000 m (6562') indoor use only

Relatively Humidity: 90% max

Operation Temperature: 0 to 50°C (32 to 122°F)

Display: 4½ digit LCD

Sampling Rate: 1 reading per second

Power Requirement: Six 1.5V "AAA" alkaline batteries (included) or optional 9 AC adaptor, (9 Vdc, 500 mA minimum)

Battery Life (Typical):

Approx 30 hrs (interval printing = 60 minutes, excluding beeper)
70 hours (without printing and beeper)

Input Protection: 60 Vdc/24Vrtns

Operating Temperature and Humidity: 0 to 50°C (32 to 122°F) below 90% RH

Storage Temperature and Humidity: -10 to 60°C (14 to 140°F) below 70% RH

Dimensions: 193 L x 74 W x 37 mm H (7.60 x 2.91 x 1.46")

Weight: Approx 365 g (13 oz) with batteries and thermo-paper

Printer: Thermo-printing type with 16 characters per line using 38 mm width plain thermal paper

Accuracy at 23°C, Below 80% RH:

Type K:

- ±(0.01% rdg + 0.5°C) 0~982°C
- ±(0.05% rdg + 0.5°C) 982~1333°C
- ±(0.01% rdg + 0.9°F) 32~1800°F
- ±(0.05% rdg + 0.9°F) 1800~2431°F

Type J:

- ±(0.01% rdg + 0.5°C) 0~760°C
- ±(0.01% rdg + 0.9°F) 32~1400°F

Type E:

- ±(0.01% rdg + 0.5°C) 0~703°C
- ±(0.01% rdg + 0.9°F) 32~1297°F

Type T:

- ±(0.01% rdg + 0.5°C) 0~400°C
- ±(0.01% rdg + 0.9°F) 32~752°F

Type K/J/E/T:

- ±(0.5% rdg + 0.7°C) -200~0°C
- ±(0.5% rdg + 1.4°F) -328~32°F

Type K/J/E/T:

- ±(0.5% rdg + 1.0°C) -200~0°C/
- 328~32°C

Resolution: 0.1°C/0.1°F

Measurement Range:

- Type K:** -200~1333°C (-328~2431°F)
- Type J:** -200~760°C (-328~1400°F)
- Type E:** -200~703°C (-328~1297°F)
- Type T:** -200~400°C (-328~752°F)



Two type K thermocouples included.

HH1304P, \$599.



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
HH1304P	\$599	Printing handheld thermometer

Accessories (Field Installable)

Model Number	Price	Description
HH1300-RP	\$10	Thermal paper, package of 2
HH1304P-ADAPTOR	29	AC adaptor

Comes complete with 2 beaded wire Type K thermocouples (1 per input), alarm output cable, carry case, 6 "AAA" alkaline batteries, two rolls of thermal paper and operator's manual.

Ordering Examples: HH1304P, printing handheld thermometer, \$599.

OCW-2, OMEGACARE extends standard 1-year warranty to a total of 3 years (\$107), \$599 + 107 = \$706.

To Order, Call **1-800-82-66342** ⁶⁹ or Shop Online at **omega.com**



Heat Guns with Digital LCD

For Complete Details Visit omega.com/hg_series

HG Series Starts at **\$219**



- ✓ Compact, Light Weight, Easy-to-Use
- ✓ Six Programmable Settings With Digital Display of Temperature and Air Flow
- ✓ Programmable Heat and Air Flow
- ✓ Adjustable Temperature in 10° Increments From 50 to 540°C (130 to 1000°F) in °F or °C
- ✓ Adjustable Air Flow From 4 to 16 CFM (113 to 453 L/Min)
- ✓ Ergonomic Handle Provides Balanced Grip
- ✓ Temperature and Air Flow Lock-In-Feature Provides Added Management Control
- ✓ Power-Interrupt Reset Safety Feature Prevents an Unattended Heat Gun From Resuming Heat After a Power Failure



Value added features include lockable temperature and air flow controls, power interrupt safety reset, temperatures shown in degrees Fahrenheit or Celsius and balanced ergonomic design. Programmable or dial-in settings. Powerful, accurate, controllable heat and air flow to get the job done right. Electronic temperature control system maintains constant temperature when varying air flow or using attachments.

A broad range of optional attachments make the LCD Heat Guns ideal for a wide variety of applications including heating, shrinking, drying, soldering, desoldering, plastic welding and more.

HG-1400, \$219.



HG Series Kit includes carrying case with accessories.



HG1400 digital display.

Rugged, ergonomic heat guns with digital display of temperature and air flow. Adjustable heat in 10° increments from 50 to 540°C (130 to 1000°F), and adjustable air flow from 4 to 16 CFM provides fast, reliable, repeatable flameless heat.

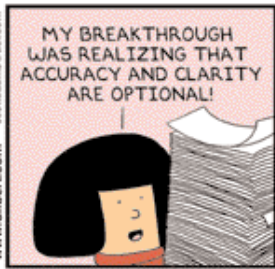
MOST POPULAR MODEL HIGHLIGHTED!

To Order (Specify Model Number)		
Model No.	Price	Description
HG-1400	\$219	LCD dial-in heat gun, 120V
HG-1400-B	229	LCD dial-in heat gun with bench stand and specialty attachment
HG-1400-KIT	269	LCD dial-in heat gun kit includes: 3½" spreader attachment, 1¾" heat shrink attachment, ½" specialty connector attachment, ⅙" and ⅕" reducer attachments and durable storage/carrying case
HG-1500	249	LCD programmable heat gun, 120V
HG-1500-KIT	299	LCD heat gun kit includes: 3½" spreader attachment, 1¾" heat shrink attachment, ½" specialty connector attachment, ⅙" and ⅕" reducer attachments and durable storage/carrying case

Comes complete with operator's manual.

Ordering Example: HG-1500-KIT, LCD programmable heat gun, 3½" spreader attachment, 1¾" heat shrink attachment, ½" specialty connector attachment, ⅙" and ⅕" reducer attachments, durable storage/carrying case, complete operators manual, \$299.

HG-1400, LCD dial-in heat gun, 120V, \$219.



Dilbert © United Feature Syndicate

Automated Thermocouple Calibrator

CL541-PLUS
\$1240

Visit omega.com/cl541-plus



Multi-Input Portable Thermometer/Data Logger

RDXL8 Series Starts at
\$1900

Visit omega.com/rdxl8



Kapton® Insulated Flexible Heaters

KHR, KHLV, and KH Series

Starts at
\$33



- ✓ Rated up to 200°C (392°F)
- ✓ Etched Foil Design
- ✓ 0.010" Maximum Thickness
- ✓ 2.5, 5, or 10 Watts/in²
- ✓ 115, 230[†] and 28 Volts
- ✓ Optional Pressure-Sensitive Adhesive (PSA)

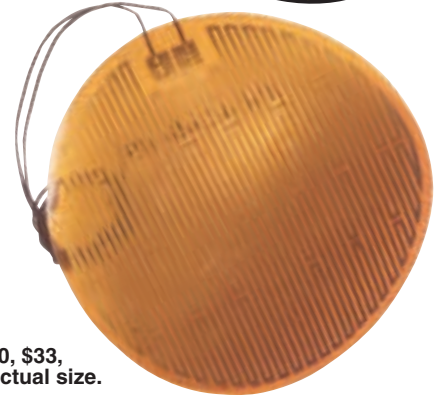
Kapton® insulated heaters are available in a variety of shapes, sizes, and wattages. Wattage ratings are 2.5, 5, or 10 W/in² at 115, 230[†] or 28V. Kapton® offers a high degree of resistance to chemicals, and has excellent outgasing properties in high vacuum environments.

Typical construction consists of an etched foil element of 0.0005" or 0.0001" thickness which is encapsulated between two layers of 0.002" Kapton® and 0.001" FEP adhesive.

CAUTION AND WARNING!

Fire and electrical shock may result if products are used improperly or installed or used by non-qualified personnel.

KHR Series, Round, 115 Volts



KHR-2/10, \$33, shown actual size.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Dia. cm (")	Total Wattage for Watt Density			Without PSA		With PSA	
	2.5W/in ²	5W/in ²	10W/in ²	Model No.	Price	Model No.	Price
5 (2)	—	—	31.4	KHR-2/(*)	\$33	KHR-2/(*)-P	\$36

Comes complete with operator's manual.

Note: Heaters are available in only the watt densities where total wattage is indicated.

* Insert watt density: "2" for 2.5 W/in², "5" for 5 W/in² or "10" for 10 W/in².

† Most sizes available in 230V. Consult heater sales and engineering.

Ordering Example: KHR-2/2-P, 5 cm (2" diameter), 115V, 2.5 W/in² heater with PSA, \$36.

Flexible Silicone Rubber Fiberglass Insulated Heaters

SRF Series
Starts at
\$26



- ✓ Lightweight, Thin, Flexible
- ✓ Available in 2.5, 5 and 10 W/in²
- ✓ -56°C (-70°F) to 232°C (450°F) Operating Temperature
- ✓ Etched Foil and Wire Wound Design
- ✓ Round or Rectangular Shapes
- ✓ Available in 115 Vac
- ✓ Optional Pressure Sensitive Adhesive (PSA)[†]

OMEGALUX® silicone rubber fiberglass insulated flexible heaters can improve heat transfer and speed warm-ups where controlled heating is required in confined areas. Two circuit designs are available: etched foil or wire wound. Heaters with etched foil designed elements are available where the length or width dimension is less than 305 mm (12"). All other heaters where both the length and the width dimensions exceed 305 mm (12") use the wire-wound element design.

CAUTION AND WARNING!

Fire and electrical shock may result if products are used improperly or installed or used by non-qualified personnel.



SRFR-3/10, \$26, shown smaller than actual size.

AVAILABLE FOR FAST DELIVERY!

Round Silicone Rubber Heaters

To Order (Specify Model Number)							
Diameter cm (")	Total Wattage for Watt Density			Without PSA Model No.	Price	With PSA Model No.	Price
	2.5W/in ²	5W/in ²	10W/in ²				
7.6 (3)	17.5	35	70	SRFR-3/*	\$26	SRFR-3/*-P	\$28

Comes complete with operator's manual.

* Insert watt density: "2" for 2.5 W/in², "5" for 5 W/in² or "10" for 10 W/in².

† Heaters with pressure sensitive adhesive: max operating temperature is 120°C (250°F).

Ordering Example: SRFR-3/10, 7.6 cm (3") diameter heater with a watt density of 10 W/in² and 70 watts of total power, \$26.

Wrap-Around Tote Tank Heaters

TOTE Series
Starts at
\$1469



For Complete
Details Visit
omega.com/tote

TOTE421-ADJ/120V,
\$1659.



- ✓ Fits Any Tote Tank from 1m (40") to 1.2 m (48") Square
- ✓ Comes in Heights of 0.9 m (36"), 1.1 m (42"), or 1.2 m (48")
- ✓ Two Heating Zones
- ✓ Two Built-In Adjustable Thermostats

The OMEGA TOTE™ Series tote tank heaters are flexible wrap-around surface heaters offered in different sizes based on height. These heaters provide a quick, easy, non-invasive way to warm your product. They fit nearly every standard tote tank owing to adjustable nylon straps with buckles. There are 3 straps for placing around the tank and 2 for across the top. Units include an adjustable thermostat and a manual reset high-limit thermostat for each of the two zones.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description
TOTE361-ADJ/120V	\$1469	Tote heater with thermostat, 120V, 1440 W, 0.9 m (36") height
TOTE362-ADJ/240V	1469	Tote heater with thermostat, 240V, 2880 W, 0.9 m (36") height
TOTE421-ADJ/120V	1659	Tote heater with thermostat, 120V, 1440 W, 1.1 m (42") height
TOTE422-ADJ/240V	1659	Tote heater with thermostat, 240V, 2880 W, 1.1 m (42") height
TOTE481-ADJ/120V	1694	Tote heater with thermostat, 120V, 1440 W, 1.2 m (48") height
TOTE482-ADJ/240V	1694	Tote heater with thermostat, 240V, 2880 W, 1.2 m (48") height
TOTE-COVER	441	Tote insulated top cover

Tote Heaters come with both adjustable and high-limit thermostats for each of two heat zones. **Ordering Example:** TOTE361-ADJ/120V, tote heater with thermostat, 120 V, 1440 W, 0.9 m (36") height, TOTE-COVER, tote insulated top cover, \$1469 + 441 = \$1910.

ELECTRIC HEATERS

Gas Cylinder Warmers

GCW Series
Starts at
\$820



For Complete
Details Visit
omega.com/gcw_warmers

GCW-848-150-120,
\$820.

MOST POPULAR MODELS HIGHLIGHTED!

- ✓ Approved for Hazardous Locations (Class I, Division I, Groups C & D)
- ✓ Built-In Insulation:
Sides: 51 mm (2.0") Thick
Top: 13 mm (0.5") Thick
- ✓ Self-Regulating Grounded Heating Element

OMEGA's GCW Series gas cylinder warmers create a convection current and increase pressure inside the cylinder. This cost-effective process reduces condensation, allowing more gas to fill the cylinder. Use with gases such as SF₆, propane, nitrogen, oxygen, BC₃, WF₆, and HF.

To Order (Specify Model Number)

Model No.	Price	Description: cm (in)
GCW-848-150-120	\$820	20 x 122 (8 x 48)
GCW-848-150-240	820	20 x 122 (8 x 48)
GCWH-848-150-120	1310	20 x 122 (8 x 48) HAZ
GCWH-848-150-240	1310	20 x 122 (8 x 48) HAZ
GCW-951-150-120	905	23 x 130 (9 x 51)
GCW-951-150-240	905	23 x 130 (9 x 51)
GCWH-951-150-120	1340	23 x 130 (9 x 51) HAZ
GCWH-951-150-240	1340	23 x 130 (9 x 51) HAZ
GCW-TOP	87	Gas cylinder top cover
GCW-BOTTOM-8	77	Gas cylinder bottom pad, 20 (8)
GCW-BOTTOM-9	83	Gas cylinder bottom pad, 23 (9)
GCW-BOTTOM-15	94	Gas cylinder bottom pad, 38 (15)

Because of the nature of the heating element, a high inrush of current may occur during start-up at lower ambient temperatures. Length and diameter will determine wattage needed. **Ordering Example:** GCW-848-150-120, gas cylinder warmer, 20 x 122 cm (8 x 48"), \$820.



Explosion-Resistant Drum Heater

SEPDH Series
Starts at
\$1884



- ✓ Factory Mutual Hazardous Area Approval
- ✓ Class I, Div 2, Groups B, C, and D; Class 2, Div 2, Groups F and G
- ✓ Inherently Safe
- ✓ Integral Built-In High-Limit Thermal Cutout** Prevents Temperature Runaway
- ✓ Up to 2½ Watts Per Square Inch

High-Limit Thermostat Temperature	
T4A	70°C (158°F)
T3	145°C (293°F)



SEPDH-C-1300-120-T3, \$1920.

For Complete Details Visit omega.com/sepdh

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)		
Model No.	Volts	Price
55 Gallon		
SEPDH-C-1300-120-*	120	\$1920
SEPDH-C-1300-240-*	240	1920
30 Gallon		
SEPDH-C-1000-120-*	120	\$1884
SEPDH-C-1000-240-*	240	1884

* Insert "High-Limit Thermostat Temperature" rating from table. The maximum allowable sheath temperature ("T" rating) must be specified if drum heater is to be used in a Division 2 area. "C" specifies heaters with adjustable temperature control assembly and temperature ranges from -4 to 163°C (25 to 325°F).

** Article 501 of the NEC requires that the maximum sheath temperature of the heater shall not exceed 80 percent of the auto-ignition temperature of the surrounding atmosphere when heater is continuously energized.

Auto-Ignition Temperature: The minimum temperature required to initiate or cause self-sustained combustion of a solid, liquid or gas independently of the heating or heated element (see NFPA 325M, Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids).

Ordering Example: SEPDH-C-1300-120-T3, 55 gallon, 120V drum heater with a T3 rating of 156°C (312°F), \$1920.

Drum Heaters

FCDH Series
\$1024
All Models



- ✓ 55 Gallon Wraparound
- ✓ Easy-to-Use Digital Temperature Controller with Audible/Visual Alarm
- ✓ Low Watt Density
- ✓ Silicone-Coated Fiberglass Facing
- ✓ 25 mm (1") Fiberglass Insulation
- ✓ Metal and Poly Drum Models

The FCDH Series consists of full-coverage insulated drum heaters that provide a safe and efficient method of temperature and viscosity control. An easy-to-use digital temperature controller

prevents temperature runaway. These heaters use a patented grounded heating element and are designed for indoor use when it is desirable to insulate the entire surface of the drum.

FCDH-1600-120, \$1024.



For Complete Details Visit omega.com/fcdh



Display is mounted on top of controller box for increased visibility and user convenience.

MOST POPULAR MODEL HIGHLIGHTED!

To Order (Specify Model Number)						
Model No.	Price	Description	Type	Wattage	Voltage	
FCDH-1600-120	\$1024	Drum heater	Metal	1600	120	
FCDH-750-120	1024	Drum heater	Plastic	750	120	
FCDH-1600-240	1024	Drum heater	Metal	1600	240	
FCDH-750-240	1024	Drum heater	Plastic	750	240	
FCDH-TOP	89	Drum top cover	—	—	—	

All drum heaters are for 55 gallon size and comes with a digital temperature controller. The 120 Vac models include a 3-prong plug, and the 240 Vac models have stripped leads. FCDH-TOP is an insulation cover that fits on the top of a drum to help prevent heat loss.

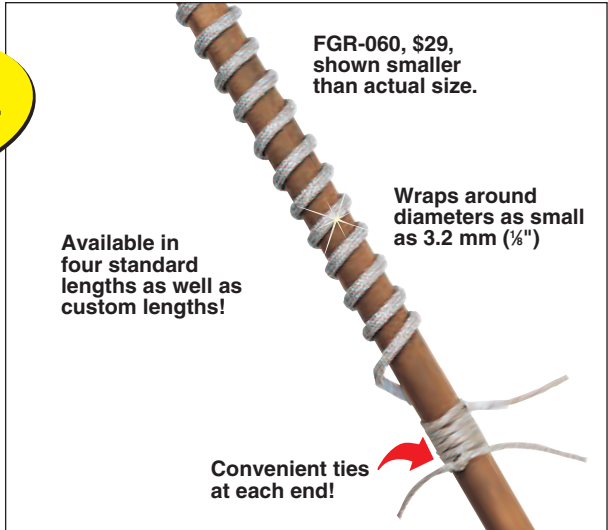
Ordering Example: FCDH-1600-120, drum heater for 55 gallon size, 120V, 1600 W, with a digital temperature controller, FCDH-TOP, insulation cover that fits on the top of a drum to help prevent heat loss, \$1024 + 89 = \$1113.

OMEGALUX® Rope Heaters

FGR Series
Starts at
\$12



For Complete
Details Visit
omega.com/fgr



- ✔ Operating Temperature Rating to 482°C (900°F)
- ✔ Wraps Around Small Diameter Pipes and Tubes

OMEGALUX® rope heaters apply heat to tubing with diameters as small as 3.2 mm (1/8"). Featuring a maximum allowable operating temperature of 482°C (900°F), the FGR Series rope heaters can be wrapped around either conductive or non-conductive surfaces. Each end terminates with 610 mm (24") long fiberglass-insulated lead wire.

Specifications

Maximum Allowable Temperature: 482°C (900°F)
Suitable for Use on Conductive Surface: Yes
Resists Moisture Vapor or Chemicals: No
Standard Diameter: 5 mm (3/16")
Voltage: 120 Volt AC or DC, 240 V optional
Linear Wattage: 4 Watts/in.
Heater Length: 0.9, 1.8, 2.4 or 3.0 m (3, 6, 8 or 10')
Lead Length: 609 mm (24")
Termination: Stripped leads

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model Number	Description Length	Wattage	Voltage	Price
FGR-030	0.9 m (3')	125	120	\$12
FGR-060	1.8 m (6')	250	120	29
FGR-080	2.4 m (8')	400	120	31
FGR-100	3.0 m (10')	500	120	43

240 Vac models and other wattages also available.

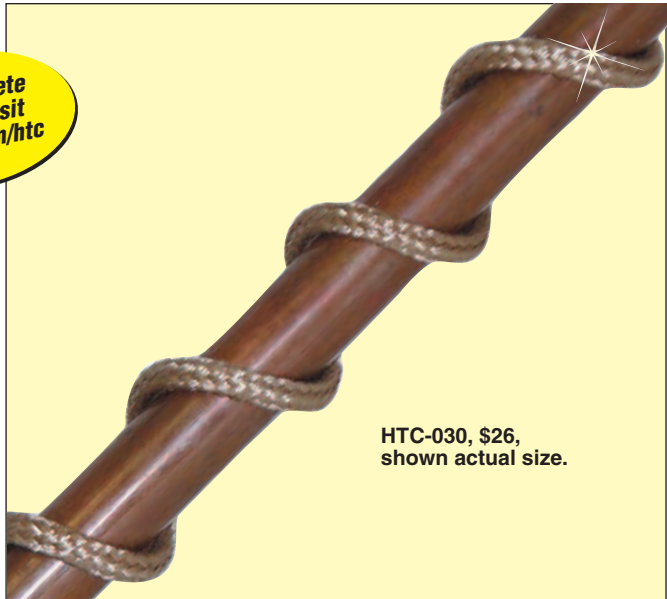
Ordering Example: FGR-060, 1.8 m (6') 120 Vac rope heater, \$29.

Heating Cords

HTC Series
Starts at
\$26



For Complete
Details Visit
omega.com/htc



- ✔ Maximum Exposure Temperature 482°C (900°F)
- ✔ Wraparound Diameters as Small as 3.2 mm (1/8")
- ✔ Knitted and Braided Fiberglass Construction
- ✔ Power Density: 0.003 W/mm² (1.8 W/in²)
- ✔ Double-Braided Fiberglass Outer Sheath
- ✔ Suitable for Electrically Conductive Surfaces
- ✔ 120 Vac
- ✔ Includes High-Temperature Tie-Downs

OMEGA heating cords are designed for use on small-diameter tubes, vessels, or wherever space is limited. They can be wrapped around tubing as small as 3.2 mm (1/8") diameter. The double-braided fiberglass outer sheath ensures durability for laboratory, production, or maintenance applications.

MOST POPULAR MODEL HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description
HTC-030	\$26	Heating cord 0.9 m (3'), 64 W, 120V
HTC-060	30	Heating cord 1.8 m (6'), 125 W, 120V
HTC-120	38	Heating cord 3.6 m (12'), 260 W, 120V

Ordering Example: HTC-030, heating cord 0.9 m (3'), 64 W, 120V, \$26.

CAUTION AND WARNING!
 Fire and electrical shock may result if products are used improperly or installed or used by non-qualified personnel.

To Order, Call **1-800-82-66342** or Shop Online at omega.com

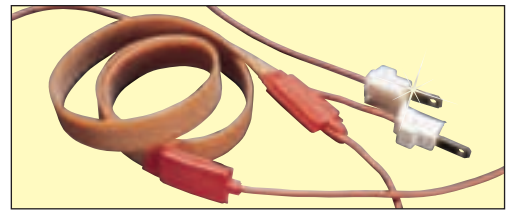
ELECTRIC HEATERS

Medium Temperature Heating Tapes

SRT Series
Starts at
\$49



For Complete
Details Visit
[omega.com/
srt_heaters](http://omega.com/srt_heaters)



MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)					
Watts	W/in ²	Volts	Size cm/m ("')	Model No.	Price
52	4.3	120	1/0.6 (½ x 2)	SRT051-020	\$49
104	4.3	120	1/1.2 (½ x 4)	SRT051-040	55
156	4.3	120	1/1.8 (½ x 6)	SRT051-060	66

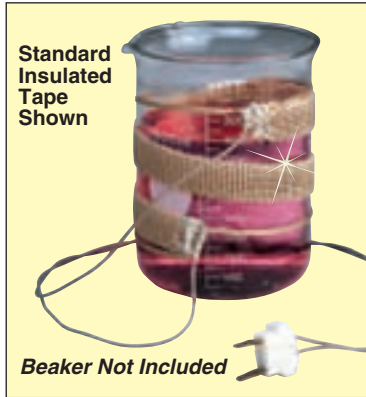
✓ Maximum Exposure
Temperature up to
230°C (450°F)

Comes complete with instruction sheet.
To order heaters with power leads exiting the same end of the tape, add suffix "-LSE" to model number. Call Sales for pricing. To order 240V version change "-1" in model number to "-2". All 240V versions are supplied without plugs. Call for sales prices.
Ordering Example: SRT051-060, 120V, 156 W, heating tape, \$66.

For Complete
Details Visit
omega.com/fgs

High Temperature Heating Tapes

FGS, FGH, FWH
Series
Starts at
\$22



✓ Maximum Exposure
Temperature up to 480°C
(900°F)

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)					
Watts	W/in ²	Volts	Size	Model No.	Price
46	8.6	120	¾" x 12"	FGS0031-010	\$22
836	8.6	120	1" x 8'	FGS101-080	66
104	8.6	120	½" x 2'	FGH051-020	27
313	8.6	120	½" x 6'	FGH051-060	38
522	8.6	120	½" x 10'	FGH051-100	55
627	8.6	120	1" x 6'	FGH101-060	88
836	8.6	120	1" x 8'	FGH101-080	104

Ordering Example: FGH101-060, heavy insulated, 120V, 627 W, heating tape, \$88.

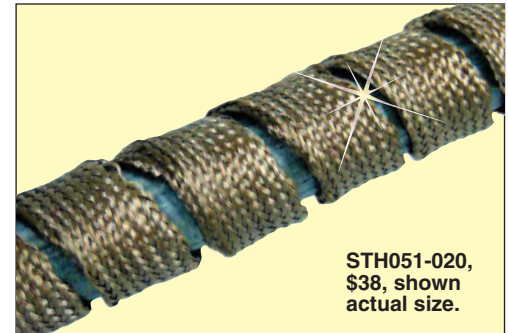
Ultra-High Temperature Heating Tapes

STH, SST, SWH
Series
Starts at
\$27



For Complete
Details Visit
omega.com/sth

✓ Maximum Exposure
Temperature up to 760°C
(1400°F)



MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)							
Watt	W/in ²	Volts	Size	Heavy Insulated Tapes		Standard Insulated Tapes	
				Model Number	Price	Model Number	Price
156	13	120	½" x 2'	STH051-020	\$38	SST051-020	\$27
313	13	120	½" x 4'	STH051-040	44	SST051-040	33
470	13	120	½" x 6'	STH051-060	60	SST051-060	44
627	13	120	½" x 8'	STH051-080	71	SST051-080	55
940	13	240	½" x 12'	STH052-120*	104	SST052-120*	77
940	13	240	1" x 6'	STH102-060*	82	SST102-060*	49
1256	13	240	1" x 8'	STH102-080*	88	SST102-080*	66

Comes complete with instruction sheet.

* Does not come with plug.

Ordering Example: STH051-020, heavy insulated, 120V, 156 W, heating tape, \$38.

High Watt Density Cartridge Heaters With Incoloy® Sheathing ¼" (1cm) Diameter

CIR Series
Starts at
\$51

- ✓ Reliable Premium Quality
- ✓ Rugged, Shock and Vibration Resistant
- ✓ U.L. Component Recognized
- ✓ CSA Certified
- ✓ Lengths from 1¼ to 6" (3 to 15 cm)
- ✓ 120 and 240 Vac Models

¼" Nominal Diameter CIR Series
(Actual Dia. and Tolerance: 0.248" ± 0.055") 0.000"

OMEGALUX® CIR series high watt density cartridge heaters are manufactured to the highest industry standards using only premium materials. They have been designed to last longer and outperform any other brand cartridge heater in both laboratory and industrial applications. Their heavy duty construction provides high dielectric strength as well as shock and vibration resistance.

For Complete
Details Visit
omega.com/cir_14

Both models
shown actual size.

CIR-1024/120V,
\$56.

CIR-1013/120,
\$51.



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Shth. Lgth.	Watts	W/in ²	Model No.	Price	Wt lbs	Shth. Lgth.	Watts	W/in ²	Model No.	Price	Wt. lbs	Shth. Lgth.	Watts	W/in ²	Model No.	Price	Wt. lbs
1¼	75	128	CIR-1013/120	\$51	0.02	2	250	214	CIR-1024/*	\$56	0.03	4	150	53	CIR-1044/240	\$69	0.04
1¼	100	171	CIR-1012/120	51	0.02	2	300	256	CIR-10201/240	54	0.03	4	200	73	CIR-1042/*	69	0.04
1¼	150	256	CIR-1014/120	51	0.02	2½	175	112	CIR-1025/*	59	0.03	4	250	92	CIR-1043/240	69	0.04
1½	50	64	CIR-1016/120	53	0.02	2½	250	160	CIR-1029/*	59	0.03	4½	200	61	CIR-1046/120	70	0.05
1½	100	128	CIR-1017/120	53	0.02	3	100	51	CIR-1031/*	63	0.04	4½	300	93	CIR-1045/240	70	0.05
1½	175	220	CIR-1019/120	53	0.02	3	250	129	CIR-10301/240	63	0.04	5	200	57	CIR-1052/*	73	0.05
1½	200	256	CIR-10151/*	53	0.02	3	300	153	CIR-1032/*	63	0.04	5	300	85	CIR-1053/*	73	0.05

* Designate voltage, insert 120 for 120 Vac or 240 for 240 Vac. Those catalog numbers containing 120 or 240 are only available in that voltage.

† Consult Sales.

Note: ¼" diameter CIR series cartridge heaters use 22 AWG stranded lead wire.

Ordering Example: CIR-1014/120, ¼" diameter, high watt density cartridge heater, \$51.

CAUTION AND WARNING!

Fire and electrical shock may result if products are used improperly or installed or used by non-qualified personnel. See inside back cover for additional warnings.

Ceramic-Insulated Strip Heaters

HCS Series
Starts at
\$38



For Complete
Details Visit
omega.com/hcs_heater

Applications

- ✓ Dies
- ✓ Molds
- ✓ Plastic Forming and Sealing
- ✓ Tank and Kettle Heating

(For specific applications, correctly rated elements should be used to prevent overheating and to ensure long life)

The HCS Series stainless steel strip heaters provide clean, dependable heat with sheath temperatures up to 649°C (1200°F) and watt densities up to 40 W per square inch. Because of the seamless stainless steel sheath, these ceramic-insulated strip heaters are dimensionally stable in milled slots.



HCS-080-120V, \$40, shown smaller than actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model No.	Price	Description	Watts	Dimensions: cm (in)		
				A	B	C
HCS-055-120V	\$38	Strip heater	150	13 (5)	10 (4)	3 (1)
HCS-080-120V	40	Strip heater	250	20 (8)	18 (7)	5 (2)
HCS-120-120V	44	Strip heater	500	30 (12)	28 (11)	18 (7)
HCS-180-120V	50	Strip heater	750	46 (18)	43 (17)	30 (12)
HCS-181-120V	50	Strip heater	1250	46 (18)	43 (17)	30 (12)
HCS-357-240V	74	Strip heater	2500	35 (89)	86 (34)	76 (30)

Comes complete with operator's manual.

Ordering Example: HCS-055-120V, strip heater, 150 W, \$38.

To Order, Call **1-800-82-66342** or Shop Online at omega.com



Visit omega.com/dilbert

for your daily dose of DILBERT!

DILBERT® by Scott Adams

Hazardous Area Heater 50 W, 100 W

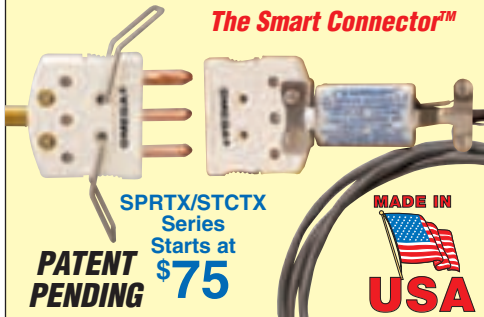
CREX020 Series
Starts at
\$169



Visit omega.com/crex020_series

Connector-Transmitter for RTDs and Thermocouples Replace Other Style Transmitters with a Connector-Transmitter

The Smart Connector™



SPRTX/STCTX
Series
Starts at
\$75

PATENT
PENDING



Visit omega.com/sprtx_stctx

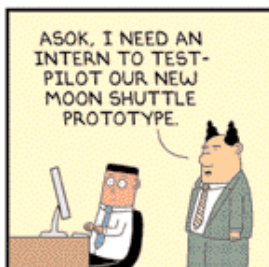
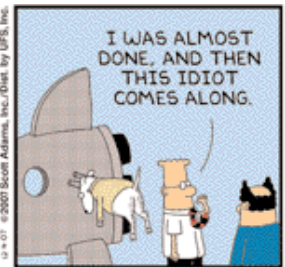
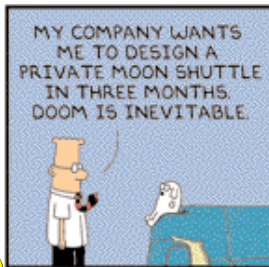
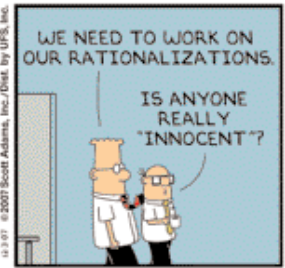
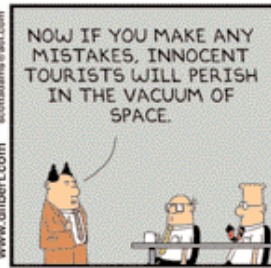
Infrared Thermometer with Circle/Dot Laser Sighting



OSXL450
\$65

PATENTED

Visit omega.com/osxl450



Dilbert © United Feature Syndicate

Screw Plug Immersion Heaters

EMH Series
Starts at
\$56

For Complete
Details Visit
[omega.com/
emh_heater](http://omega.com/emh_heater)



- ✓ ½, ¾, and 1¼ NPT Screw Plugs
- ✓ 316 SS Sheath
- ✓ 400 to 1000 W
- ✓ 120 and 240 V, 1-Phase
- ✓ Single Thread Pipe Construction



EMH-061-120V, \$70, shown smaller than actual size.



All models over 1¼" diameter come standard with box.
EMH-110-240V, \$141.

MOST POPULAR MODELS HIGHLIGHTED!

Specifications

Power: 120 and 240 V, 1-phase

Watt Density:

½" Diameter: 37 W/in²

¾" Diameter: 38 W/in²

1¼" Diameter: 24 W/in²

Termination:

¾, ¾" Diameter: 12" fiberglass leads rated to 250°C (482°F), epoxy potting rated to 130°C (266°F)

1¼" Diameter: 8-32 screw and nut terminals

Sheath: 316 SS

Screw Plug and Threads: 316 SS

To Order (Specify Model Number)

Model No.	Price	Description	Watts*	Dimensions (in)**
EMH-060-120V	\$56	½" diameter, ½ NPT	400	6
EMH-060-240V	56	½" diameter, ½ NPT	400	6
EMH-061-120V	70	¾" diameter, ¾ NPT	500	6
EMH-061-240V	70	¾" diameter, ¾ NPT	500	6
EMH-110-120V	141	1¼" diameter, 1¼ NPT	1000	11
EMH-110-240V	141	1¼" diameter, 1¼ NPT	1000	11

* Wattages are based on a unit operating immersed in water.

** Dimensions from bottom of hex nut.

Comes complete with operator's manual.

Ordering Example: EMH-060-120V, ½" diameter, ½ NPT, \$56.

Self-Regulating Immersion Heaters



Compact VP and VPT Series immersion heaters are ideal when space is a consideration.

VPT-311/120V, \$421.

VPT-107-FLGE, \$23.

VPT-107-ADAP, \$25

VPT-107/120V, \$158.

VP-107/120V, \$127.

Polypropylene mounting flange allows vertical suspension.

For Complete
Details Visit
omega.com/vp_vp

VP and VPT Series
Starts at

\$127



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Single-Element Heater		
Model No.	Description	Price
VP-107/*	100 W stainless steel sheath immersion heater	\$127
VP-107-ADAP	½ NPT PVDF screw plug adaptor for VP-107/* immersion heater	25
VPT-107/*	100 W stainless steel sheath immersion heater with PFA covering	158
VPT-107-ADAP	½ NPT PVDF screw plug adaptor for VPT-107/* immersion heater	25
VPT-107-FLGE	Polypropylene mounting flange (used with VP-107-ADAP or VPT-107-ADAP)	23
Dual-Element Over-the-Side Small Tank Heater		
VP-311/*	300 W stainless steel sheath immersion heater	\$397
VPT-311/*	300 W stainless steel sheath immersion heater with PFA covering	421

* Designate voltage (i.e., insert "120V" for 120 Vac or "240V" for 240 Vac).

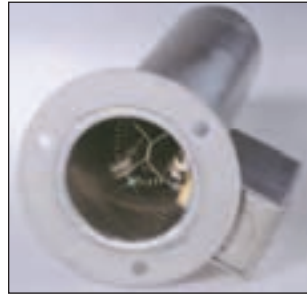
Ordering Example: VPT-107/120V, 120 Vac, 100 W, PFA-covered immersion heater, \$158.

- ✓ Self-Regulating, Fully Grounded
- ✓ Stainless Steel or PFA-Covered Stainless Steel Sheaths
- ✓ Solid State Heating Element, Temperatures Up to 260°C (500°F)

To Order, Call **1-800-82-66342** or Shop Online at omega.com

Maximum Flow Air Heaters

AHF Series
Starts at
\$102



Nickel-Chrome Heating Element
Insulated with Ceramic Beads

For Complete
Details Visit
[omega.com/
ahf_heater](http://omega.com/ahf_heater)

AHF-10120, \$133, shown
smaller than actual size.



- 4" OD Mounting Flange
- Air Flows Up To 200 CFM*
- Exit Air Temperatures up to 315°C (600°F)
- Post Terminals Junction Box

MOST POPULAR MODELS HIGHLIGHTED!

Calculate the flow rate, temperature rise, or power requirement as follows:

Watts = SCFM x ΔT / 3
 SCFM = Standard Cubic Feet Per Minute
 ΔT = Temperature Rise in Degrees F from the Inlet to the Outlet

Specifications

Maximum Amperage: 15
 Cross Sectional Flow Area: 3.5 square inches
 Threaded Terminals: 6-32

To Order (Specify Model Number)

Model Number	Volts	Watts	Heated Length mm (in)	Watts/Inch**	Maximum CFM	Length mm (in)	Price	Weight kg (lb)
120 Vac Models								
AHF-06120	120	600	102 (4)	150	200	152 (6)	\$102	0.23 (0.5)
AHF-10120	120	1000	203 (8)	125	200	254 (10)	133	0.57 (1.25)
120/240 Vac Models*								
AHF-12240	120 240	375 1500	254 (10) 254 (10)	38 150	200 200	305 (12)	\$150	0.68 (1.5)
AHF-14240	120 240	500 2000	305 (12) 305 (12)	42 166	200 200	356 (14)	166	0.79 (1.75)

* These air heaters can be operated on either 120 or 240V. Specifications are given for operation on both 120 and 240V.

** Indicates Watts per inch of heated length. Use the table above to determine minimum required flow rates. The watts per inch of heated length can be changed by reducing the operating voltage or by ordering a custom made heater. Stainless steel construction also available. Consult Engineering.

Ordering Example: AHF-06120, air heater, 120 Vac, 600 W, \$102.

Low Flow Air Process and Liquid Circulation Heaters

AHPF Series
Starts at
\$250



For Complete
Details Visit
[omega.com/
ahpf_heater](http://omega.com/ahpf_heater)

AHPF-061, \$250,
shown smaller
than actual size.



MOST POPULAR MODELS HIGHLIGHTED!

- 316 Stainless Steel Construction
- Air/Gas Flow up to 15 CFM
- Air/Gas Outlet Temperatures up to 430°C (800°F)
- Pressures up to 100 psi*
- 50 Watts/Square Inch**

Specifications

Cross Sectional Area: 0.152 sq. inches
 Pressure Rating: Up to 100 psig
 Wattage Tolerance: +5, -10% or better at the voltage specified
 Outside Diameter: 32 mm (1¼")
 Inlet: Male ½ NPT
 Outlet: ½ NPT

To Order (Specify Model Number)

Model Number	Volts	Watts	Heated Length mm (in)	Watts/Inch*	Max CFM	Length mm (in)	Price	Weight kg (lb)
120 Vac Models								
AHPF-061	120	400	102 (4)	91	15	152 (6)	\$250	0.45 (1.0)
AHPF-081	120	600	152 (6)	94	15	203 (8)	288	0.54 (1.18)
AHPF-101	120	1000	203 (8)	120	15	254 (10)	303	0.62 (1.37)
AHPF-121	120	1200	254 (10)	115	15	305 (12)	324	0.70 (1.55)
120/240 Volt Models**								
AHPF-062	120 240	100 400	102 (4) 102 (4)	23 91	15 15	152 (6)	\$250	0.45 (1.0)
AHPF-082	120 240	150 600	152 (6) 152 (6)	23 94	15 15	203 (8)	288	0.54 (1.18)
AHPF-102	120 240	250 1000	203 (8) 203 (8)	30 120	15 15	254 (10)	303	0.62 (1.37)
AHPF-122	120 240	300 1200	254 (10) 254 (10)	29 115	15 15	305 (12)	324	0.70 (1.55)

* Indicates watts per inch of heated length. Use the table above to determine minimum required flow rates. ** These air heaters can be operated on either 120 or 240V. Specifications are shown for either 120 or 240V operation.

Ordering Example: AHPF-061, 120V, 400 W low flow air process and liquid circulation heater, \$250.

Model No.	Price	Description
AHPF-NPT12	\$88	Thermocouple T fitting

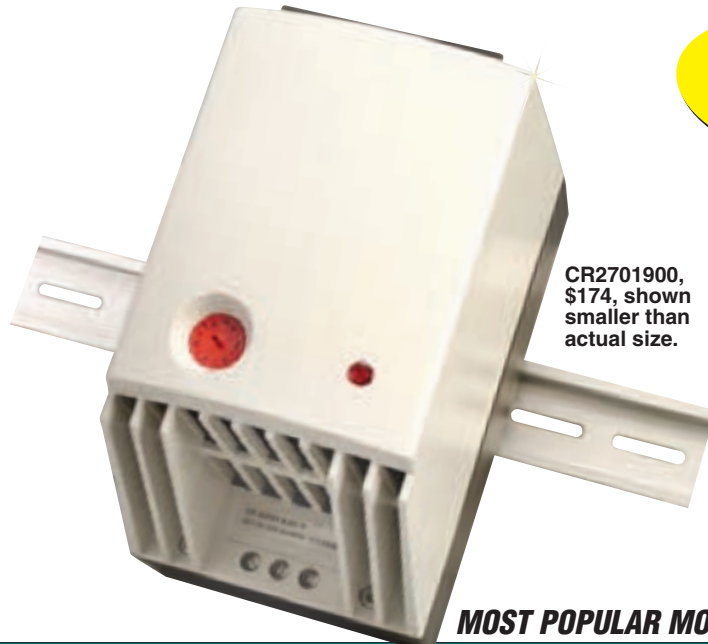
Fan Heater

CR27 Series
Starts at
\$155



- ✓ Compact Fan Heater in PTC Technology
- ✓ Heating Power Adjusts to Ambient Temperature
- ✓ Integrated Adjustable Thermostat and Control Light
- ✓ DIN Rail Mountable

An easy DIN rail mountable design makes the CR27 Series fan heater an ideal accessory for any enclosure. The CR27 maintains minimum operating temperatures in enclosures and helps to prevent failure of electronic components caused by condensation and corrosion.



CR2701900, \$174, shown smaller than actual size.

For Complete Details Visit omega.com/cr027_series

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
CR2700900	\$155	Fan heater, 550 W, 120 Vac, with adjustable thermostat 32 to 140°F
CR2701900	174	Fan heater, 650 W, 120 Vac, with adjustable thermostat 32 to 140°F

Comes complete with operator's manual.

Ordering Examples: CR2700900, fan heater, 550 W, 120 Vac, with adjustable thermostat 32 to 140°F, \$155.

CR2701901, fan heater, 650 W, 120V, with adjustable thermostat, 0 to 60°C, \$174.

Compact Fan Heater

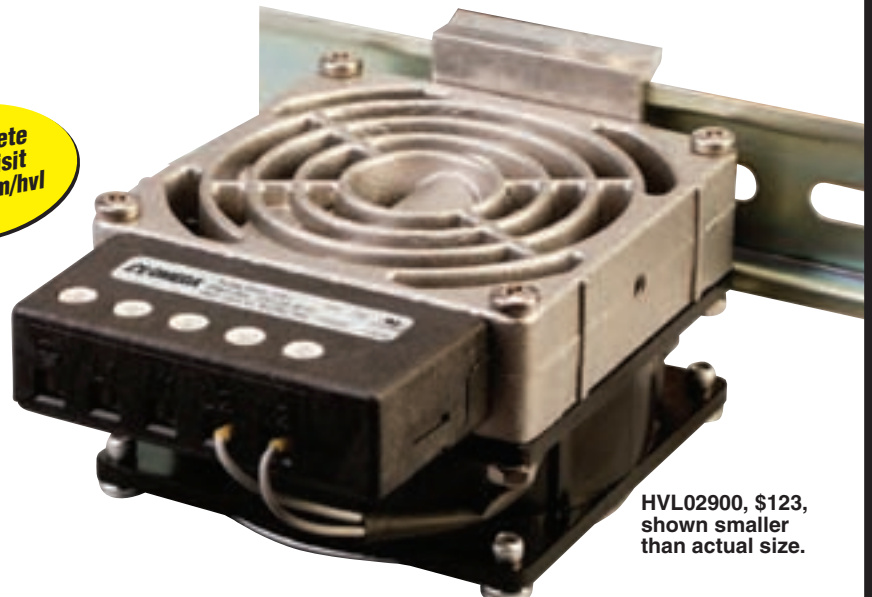
HVL Series
Starts at
\$123



- ✓ Small, Compact Size Fan Heater
- ✓ Built-In Overheat Protection
- ✓ DIN Rail Mountable
- ✓ Maintains Minimum Operating Temperatures in Enclosures
- ✓ Helps to Prevent Failure of Electronic Components Caused by Condensation and Corrosion

This compact heater is designed for many different applications including electrical and electronic enclosures, display panels, access and parking control systems and personnel booths.

For Complete Details Visit omega.com/hvl



HVL02900, \$123, shown smaller than actual size.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)		
Model No.	Price	Description
HVL02900	\$123	Fan heater, 100 W, 120 Vac
HVL03900	127	Fan heater, 150 W, 120 Vac
HVL13900	136	Fan heater, 200 W, 120 Vac
HVL14900	139	Fan heater, 300 W, 120 Vac
HVL15900	145	Fan heater, 400 W, 120 Vac

Comes complete with operator's manual, mounting kit and axial fan.

Ordering Example: HVL02900, fan heater, 100 W, 120 Vac, \$123.

ELECTRIC HEATERS

OMEGA.COM[®]

New Horizons[®] in **Wireless** Communications

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**A Selection of
Our Most Popular Products**

The Mini NOMAD® Series

Miniature RFID Data Loggers and Readers: Economical, Fast, Accurate **Wireless** Data Retrieval and Storage



PATENT PENDING

For Complete
Details Visit
omega.com/rfid

OM-84 Matchbook™ Series
Starts at
\$90
5-Pack

**Weather
Resistant!**



- ✓ Each Package of Tags Comes with a Certificate Stating NIST-Traceability (No Points)
- ✓ Ideal Solution for Cold Chain Monitoring
- ✓ Factory Replaceable Batteries
- ✓ Accurate Up to ±0.5°C (1°F)
- ✓ Wireless RFID Technology
- ✓ Store Up to 10,000 Individual Readings
- ✓ Save Stored Data From Each Logger Into Your Computer with Included Software
- ✓ Low Power Operation and Sleep Mode
- ✓ Pre-Packaged for Moderate High Volume Discounts

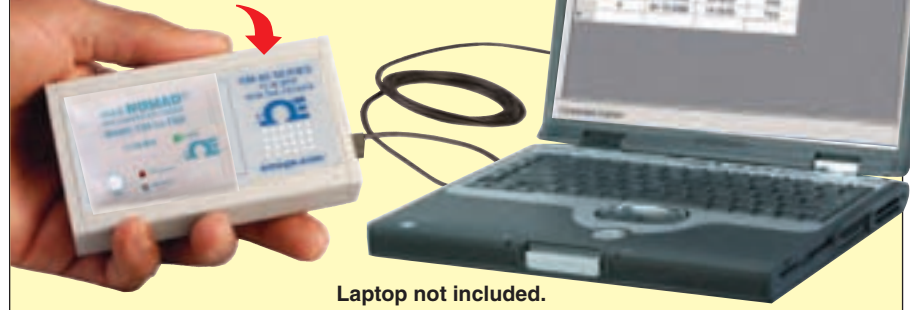


The OM-84, \$90, features a miniature, water resistant NEMA design and a factory replaceable battery.

Write-On-Window!
OMEGA's miniature RFID data loggers feature a unique write-on-window built into every unit. This provides an easy way to add your own tracking or shipment number to each unit for easy identification after retrieval from deployment!

Shown actual size.

OM-80-RD1, reader, \$195, shown reading, downloading and storing data from an OM-84-TMP, temperature data logger, \$90 (sold in packs of 5).



Laptop not included.

For a video of this product visit omega.com/video.

WIRELESS/DAS

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)		
Model No.	Price	Description
OM-84-TMP-5	\$90	Water resistant temperature logger, package of 5
OM-84-TMP-20	342	Water resistant temperature logger, package of 20
OM-84-TMP-50	810	Water resistant temperature logger, package of 50
OM-84-TMP-100	1530	Water resistant temperature logger, package of 100
OM-84-TMP-KIT*	297	Water resistant temperature logging kit: 5 loggers, benchtop reader, software, cable, case, marker
OM-80-RD1	195	Benchtop reader with software and USB cable
SC-HH500	12	Reader carrying case

* Comes complete with data loggers, benchtop reader unit, USB cable, software program on CD-ROM, permanent marker, easy operating instructions and batteries.

Ordering Examples: OM-84-TMP-5, temperature data logger (5-pack), OM-80-RD1, benchtop USB reader with cable and software, and SC-HH500 reader carrying case, \$90 + 195 + 12 = **\$297**.

OM-84-TMP-KIT, temperature logging kit, **\$297**.



Visit omega.com/dilbert

for your daily dose of DILBERT!

DILBERT® by Scott Adams

Wireless Thermocouple Temperature Transmitter
Part of the NOMAD® Family

OM-CP-RFTC4000A
\$249

Visit omega.com/om-cp-rftc4000a



Wireless Current mA Transmitter
Part of the NOMAD® Family

OM-CP-RFPROCESS101A
Starts at
\$249

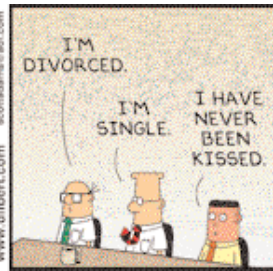
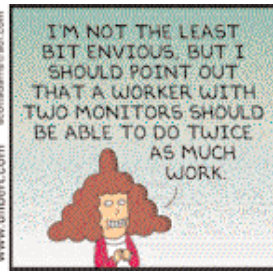
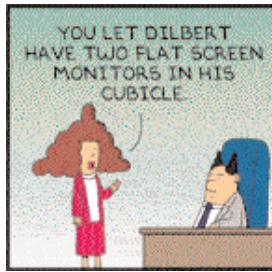
Visit omega.com/om-cp-rfprocess101a



Wireless pH and Temperature Transmitter
Part of the NOMAD® Family

OM-CP-RFPH101A
Starts at
\$449

Visit omega.com/om-cp-rfph101a



Dilbert © United Feature Syndicate

Wireless Relative Humidity/Temperature Transmitters

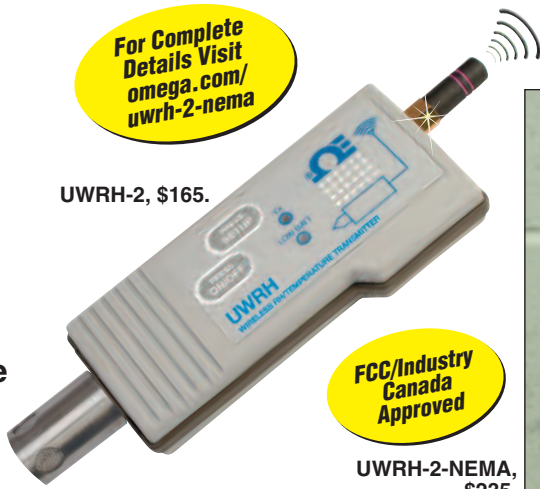


UWRH-2
Starts at
\$165



- ✓ Measure Both Relative Humidity and Temperature
- ✓ Transmit up to 120 m (400')
- ✓ Available with NEMA 4X (IP65) Weather Resistant Enclosure
- ✓ Free Software Converts Your PC Into a Multi-Channel Chart Recorder or Data Logger
- ✓ Transmits Relative Humidity, Ambient Temperature, Signal Strength and Battery Status
- ✓ Works with All UWTC Series Wireless Receivers and Transceivers

For Complete Details Visit omega.com/uwrh-2-nema



UWRH-2, \$165.

FCC/Industry Canada Approved

UWRH-2-NEMA, \$235.



Weather Proof/Wall Mounted

Both models shown smaller than actual size.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
UWRH-2	\$165	RH/temperature transmitter, compact enclosure
UWRH-2-NEMA	235	RH/temperature transmitter, NEMA enclosure

Note: USB programming cable and FREE measurement and data logging software are both included with compatible UW Series wireless receivers and transceivers.

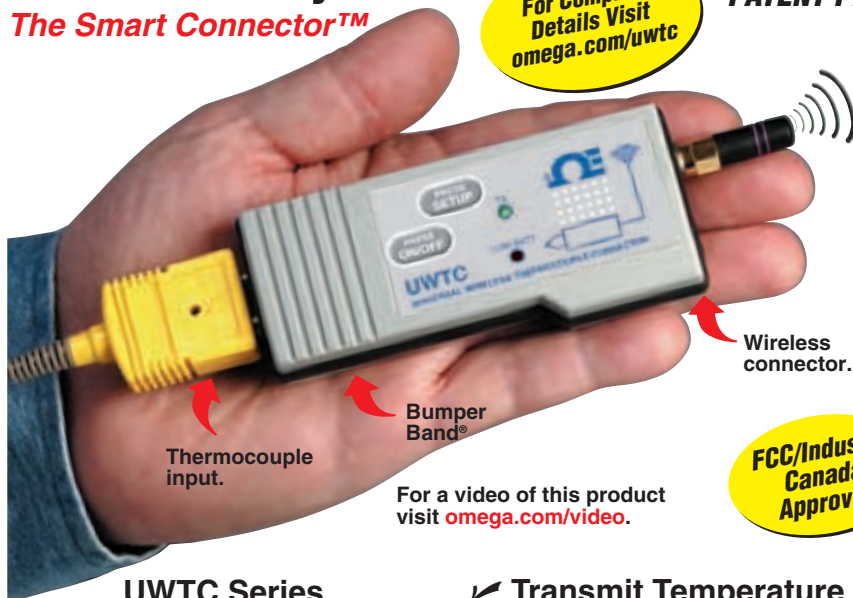
Comes complete with 3.6V lithium battery assembly, mounting bracket and operator's manual.

Ordering Examples: UWRH-2-NEMA, wireless relative humidity/temperature transmitter, UWTC-REC1, 48-channel receiver and UWTC-BATT-C, spare battery, \$235 + 225 + 25 = \$485.

UWRH-2, wireless RH/temperature transmitter, UWTC-REC1, 48-channel receiver and UWTC-BATT, spare battery, \$165 + 225 + 15 = \$405.

Temperature-to-Wireless Connector/Converter System

The Smart Connector™



For Complete Details Visit omega.com/uwtc

PATENT PENDING

Plug Your Probe Into a Smart Connector to Make a Smart Sensor!

Thermocouple input.

Bumper Band®

Wireless connector.

For a video of this product visit omega.com/video.

FCC/Industry Canada Approved

UWTC Series
Starts at
\$125



- ✓ Transmit Temperature Data Wirelessly to Your Computer or the Internet
- ✓ Transmit up to 60 m (200') Standard Distance (UWTC-1) or up to 120 m (400') Extended Distance (UWTC-2)

- ✓ Thermocouple Models Have Built-In CJC and Linearization, User Configurable for 9 Calibrations, Accept Both Standard and Miniature Connectors
- ✓ RTD Models are Configurable for 0.00385 and 0.00392 Curve Pt100 Sensors, Accepts TA4F Connector
- ✓ Each Wireless Connector Transmits Data in Real Time
- ✓ Low Power Operation, Sleep Mode for Long Battery Life
- ✓ Compatible with UWTC-REC Wireless Receivers-Create 32- or 48-Channel Wireless Systems
- ✓ Included Software Converts a PC into a Multi-Channel Chart Recorder or Data Logger

WIRELESS/DAS

To Order, Call **1-800-82-66342** or Shop Online at omega.com



Temperature-to-Wireless Transmitters For Thermocouples/RTDs

UWTC-2-NEMA
Starts at
\$165

FCC/Industry
Canada
Approved

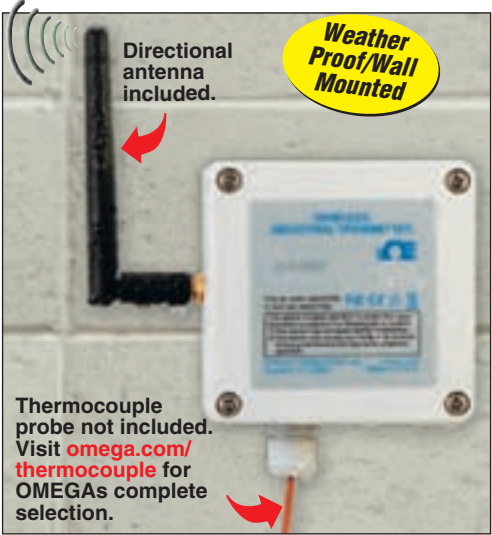
For Complete
Details Visit
[omega.com/
uwtc-2-nema](http://omega.com/uwtc-2-nema)



- ✓ Transmit Temperature Data Wirelessly to Your Computer or the Internet
- ✓ Transmit up to 120 m (400')
- ✓ Weather Resistant NEMA 4X (IP65) Enclosure
- ✓ Software Selectable for 9 Thermocouple Calibrations or 385/392 Curve Pt100 RTDs
- ✓ Transmit Data in Real Time
- ✓ Compatible with UWTC-REC Wireless Receivers

✓ Included Software Converts a PC into a Multi-Channel Chart Recorder or Data Logger

Works with all OMEGA UWTC Series wireless receivers, visit omega.com/uwtc



Directional antenna included.

Weather Proof/Wall Mounted

Thermocouple probe not included. Visit omega.com/thermocouple for OMEGA's complete selection.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
UWTC-2-NEMA	\$165	Weather resistant thermocouple-to-wireless transmitter
UWRTD-2-NEMA	175	Weather resistant RTD to wireless transmitter
UWTC-BATT-C	25	Replacement 3.6V battery assembly (one included)

Note: USB programming cable and FREE measurement and data logging software are both included with compatible UW Series wireless receivers and transceivers. Comes complete with 3.6V lithium battery assembly, mounting bracket and operator's manual. Ordering Example: UWTC-2-NEMA, thermocouple-to-wireless transmitter, \$165.

Wireless RTD Transmitter

UWRTD-S-2
Starts at
\$275



- ✓ Transmit Temperature Data Wirelessly to Your Computer or the Internet
- ✓ Water Tight White Polypropylene Housing with Industry Standard M12 Connector
- ✓ Compatible with 3 and 4-Wire Pt100 RTD Probes

- ✓ Transmit Up to 120 m (400')
- ✓ Includes Software to Convert a PC into a Multichannel Chart Recorder or Data Logger
- ✓ Each Unit Transmits Sensor and Ambient Temperatures, Signal Strength and Battery Status in Real Time
- ✓ Low Power Operation, Sleep Mode for Long Battery Life
- ✓ Compatible with UWTC-REC Wireless Receivers

For Complete
Details Visit
[omega.com/
uwrtd-s-2](http://omega.com/uwrtd-s-2)

For Sanitary,
Washdown, Marine
Applications

FCC/Industry
Canada
Approved



UWRTD-S-2, \$275, shown smaller than actual size.

To Order (Specify Model Number)		
Model No.	Price	Description
UWRTD-S-2	\$275.00	Wireless RTD transmitter, polypropylene housing, M12 connection and sensor cable
MN1500-L	6.90	Two replacement "AA" 1.5V lithium batteries for UWRTD-S-2 (two included)
UWTC-CABLE	5.00	Programming cable (included with UWTC-REC units)

Note: USB programming cable and FREE measurement and data logging software are both included with compatible UW Series wireless receivers and transceivers. Comes complete with two 1.5V lithium batteries, mounting bracket, operator's manual and 2 m (6.5') M12 sensor cable. Ordering Example: UWRTD-S-2, wireless RTD transmitter, with UWTC-REC1, 48 channel wireless receiver (page 93), \$275 + 225 = \$500.

Works with all OMEGA UWTC Series wireless receivers, visit omega.com/uwtc

Non-Contact Infrared Temperature Sensor With **Wireless** Transmitter



UWIR-2-NEMA
\$285



- ✓ -18 to 538°C (0 to 1000°F) Measurement Range
- ✓ Adjustable Emissivity from 0.10 to 1.0
- ✓ Free Software Converts Your PC Into a Multi-Channel Chart Recorder or Data Logger
- ✓ Low Power Operation and Sleep Mode For Long Battery Life
- ✓ Weather Resistant NEMA 4X (IP65) Enclosure



For Complete Details Visit omega.com/uwir-2

UWIR-2-NEMA, \$285, shown smaller than actual size.

FCC/Industry Canada Approved



Wireless Process Transmitter For Sensors with Voltage or Current Output

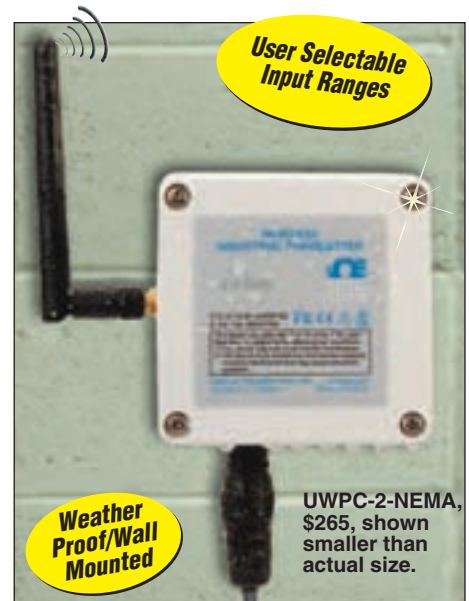
UWPC-2-NEMA
\$265



- ✓ Convert Process Signal to Wireless—Up to 120 m (400')
- ✓ Accepts 0 to 1V, 0 to 5V, 0 to 10V and 4 to 20 mA Signals
- ✓ Industrial NEMA 4X (IP65) Enclosure

For Complete Details Visit omega.com/uwpc-2-nema

- ✓ Free Software for Monitoring, Recording, and Data Logging Included
- ✓ Low Power Operation/ Sleep Mode for Long Battery Life
- ✓ UWTC Receivers Work with Up to 48 Wireless Transmitters



UWPC-2-NEMA, \$265, shown smaller than actual size.

AVAILABLE FOR FAST DELIVERY!



PX409 pressure transducer, starts at \$475, sold separately. Visit omega.com/pressure for details.

PSU-93, \$40, power supply sold separately, visit omega.com/power-supplies

To Order (Specify Model Number)		
Model No.	Price	Description
UWPC-2-NEMA	\$265	Wireless process input transmitter
UWTC-BATT-C	25	Replacement 3.6V battery assembly (one included)

Note: Because of transmission frequency regulations, these products may only be used in the United States, Canada and Europe (please note CE compliance of the specific model for use in Europe). Comes complete with 3.6V lithium battery assembly, mounting bracket and operator's manual.
Ordering Example: UWPC-2-NEMA, wireless process input transmitter and UWTC-REC1, USB powered 48-channel transmitter receiver (page 93), \$265 + 225 = \$490.

WIRELESS/DAS



Wireless pH/Temperature Transmitter With Automatic Temperature Compensation

UWPH-2-NEMA
\$265



For Complete Details Visit
omega.com/uwph-2-nema

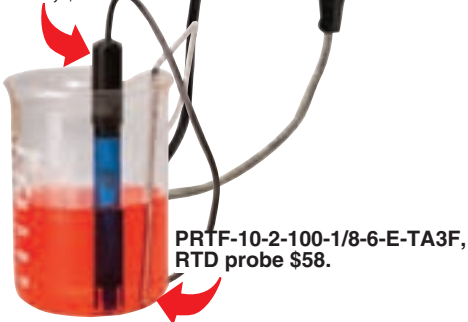
- ✓ 0 to 14 pH and 0 to 100°C (32 to 212°F) Ranges
- ✓ Transmit Data in Real-Time, up to 120 m (400')

- ✓ Free Software Converts Your PC into a Multi-Channel Chart Recorder or Data Logger
- ✓ Low Power Operation and Sleep Mode
- ✓ Works with UWTC-REC Receivers for a Complete Wireless System



UWPH-2-NEMA, \$265.

PHE-1311, gel-filled pH electrode, \$57.



PRTF-10-2-100-1/8-6-E-TA3F, RTD probe \$58.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
UWPH-2-NEMA	\$265	Wireless pH/temperature transmitter

Note: USB programming cable and FREE measurement and data logging software are both included with compatible UW Series wireless receivers and transceivers. Comes complete with 3.6V lithium battery assembly, TA3F RTD mating connector, and operator's manual. Ordering Example: UWPH-2-NEMA, wireless pH/temperature transmitter, UWTC-REC1, USB powered 48-channel transmitter receiver, PHE-1311, gel-filled pH electrode and PRTF-10-2-100-1/8-6-E-TA3F, Pt100 RTD probe, \$265 + 225 + 57 + 58 = \$605.

High-Performance Infrared Thermometer With Patented Circle/Dot Laser Sighting and **Wireless** USB Interface

OS-DT8855W
\$279



- ✓ Wireless USB Interface (RF 915 MHz for USA, Canada and Mexico)
- ✓ Wireless Transmission Distance 15 m (49.2')

- ✓ Data Logger with Built-In Memory Storing up to 20 Readings

The high performance, handheld infrared thermometer is a non-contact temperature measurement instrument that features a laser circle/dot sight.



For Complete Details Visit
omega.com/os-dt8855w

PATENTED

OS-DT8855W, \$279, shown smaller than actual size.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No	Price	Description
OS-DT8855W	\$279	Handheld infrared thermometer 30:1 field of view

Comes complete with hard carrying case, mini-tripod, AC power supply, 9V battery, one Type K thermocouple, USB wireless data receiver, PC software, probe lead adaptors, and operator's manual. Ordering Example: OS-DT8855W, handheld infrared thermometer with patented laser circle sighting, backlit LCD, 30:1 field of view, \$279. OCW-3, OMEGACARE™ extends standard 1-year warranty to a total of 4 years (\$69), \$279 + 69 = \$348.

Wireless Thermocouple Probe/ Transmitter Assemblies

UWTC-NB9 Series
Starts at
\$195



- ✓ Transmit Temperature Data Wirelessly to Your Computer or the Internet
- ✓ Complete Industrial Assembly
- ✓ Transmit up to 120 m (400')
- ✓ Included Software Converts a PC into a Multi-Channel Chart Recorder or Data Logger
- ✓ Each Wireless Connector Transmits Sensor Temperature, Ambient Temperature, Signal Strength and Battery Status in Real Time

- ✓ Low Power Operation, Sleep Mode for Long Battery Life
- ✓ Compatible with UWTC-REC Wireless Receivers

The OMEGA® wireless thermocouple and RTD industrial probe assemblies feature a complete, ready to install, pre-wired sensor and wireless transmitter package. Built into the NB9 glass reinforced Nylon head is a wireless transmitter that can transmit temperature readings back to a host receiver up to 120 m (400') away. The probes transmit the measured temperature, along with the head ambient temperature, RF signal strength and battery condition to a remote host, such as the UWTC-REC Series. You can program the UWTC-NB9 to transmit your data at rates from every two seconds (30/min) to every 2 minutes.



FCC/Industry
Canada
Approved



For Complete
Details Visit
[omega.com/
uwtc-nb9](http://omega.com/uwtc-nb9)

Wireless RTD Probe/ Transmitter Assembly For Use in Sanitary Applications

UWRTD-NB9W Series
Starts at
\$265



- ✓ Transmit Temperature Data Wirelessly to Your Computer or the Internet
- ✓ Complete Industrial Assembly—Includes Probe, Transmitter Housing/Head, Integral Wireless Transmitter and Long Life Battery
- ✓ Stainless Steel Construction with White Polypropylene Transmitter Housing

- ✓ Available with 3-A Approved Thermowells for Clean-in-Place (CIP) Applications
- ✓ Transmit up to 120 m (400')
- ✓ Included Software Converts a PC into a Multi-Channel Chart Recorder or Data Logger
- ✓ Each Wireless Connector Transmits Sensor Temperature, Ambient Temperature, Signal Strength and Battery Status in Real Time
- ✓ Low Power Operation, Sleep Mode for Long Battery Life

For Complete
Details Visit
[omega.com/
uwrt-d-nb9w](http://omega.com/uwrt-d-nb9w)

Up To 48
Channels!

Another
Sani-Fit™ Product
from OMEGA

FCC/Industry
Canada
Approved

- ✓ Compatible with UWTC-REC Wireless Receivers, Wi Series Meter/Controller/Scanner and DIN Rail Receivers—Create 32- or 48-Channel Wireless Systems



WIRELESS/DAS

To Order, Call **1-800-82-66342** or Shop Online at omega.com



Visit omega.com/dilbert

for your daily dose of DILBERT!

DILBERT® by Scott Adams

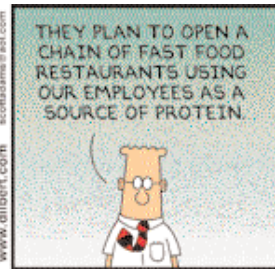
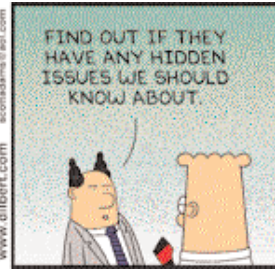
Wireless Temperature and Humidity Transmitter

OMWT-TEMPRH
\$200

Visit omega.com/omwt-tempRH



MADE IN
 USA



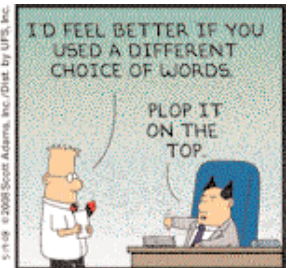
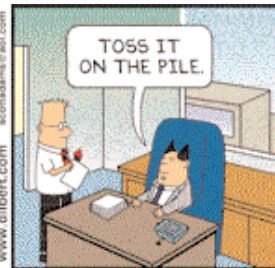
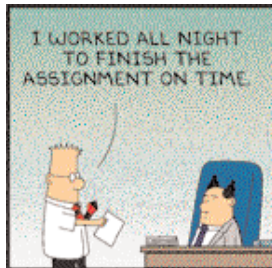
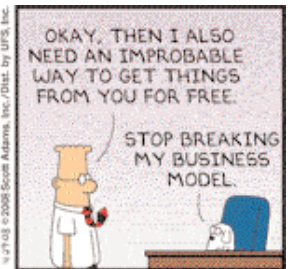
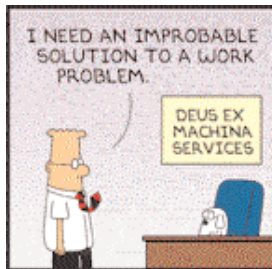
Wireless Motion Transmitter

OMWT-MOT
\$145

Visit omega.com/omwt-mot



MADE IN
 USA



Wireless Voltage Transmitter

OMWT-AIN10V
\$156

Visit omega.com/omwt-ain10v



MADE IN
 USA



Dilbert © United Feature Syndicate

Long Range **Wireless Repeater/Receiver** System For UW Series Transmitters



UWTC-RPT1
Starts at
\$325



PATENT PENDING



UWTC-1 wireless thermocouple connector, \$125, see page 85.

Long Range
Wireless up to
8 km (5 mi)

For Complete
Details Visit
[omega.com/
uwtc-rpt1](http://omega.com/uwtc-rpt1)

UWTC-RPT1-915, \$325,
wireless long range
receiver/repeater.



UWTC-REC1-915,
\$245, wireless USB
based receiver.

- ✓ Receive Data from Up to 48 Wireless Sensors and Re-transmits the Data to a USB Based Receiver Up to 5 Miles (8 km) Away
- ✓ Compatible with All OMEGA UW Series Wireless Connectors, Transmitters and Probe Assemblies
- ✓ Available in 915 MHz for USA Canada or 868 MHz for Europe

- ✓ Field Programmable via USB Connection and Included Software Utility
- ✓ Available in Rugged, Splashproof, NEMA (IP65) Housing

Standard Range
Wireless up to
120 m (400')

Wireless DIN Rail Receiver With 4 Analog Outputs and Alarms

Interfaces Directly with PLCs and Multi-Channel Data Loggers to Form a Complete **Wireless** Measurement and Control System!

UWTC-REC4
\$275



- ✓ Works with Up to 48 Wireless Transmitters
- ✓ Four 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA Analog Outputs
- ✓ Interface Directly to PLCs, Chart Recorders and Data Loggers
- ✓ Standard DIN Rail Enclosure
- ✓ Built-in Programmable Alarms for Each Channel

- ✓ Field Programmable via USB
- ✓ Included Software Turns a PC Into a Multi-Channel Meter, Chart Recorder or Data Logger

Works with:

- UWTC—Thermocouple
- UWRTD—RTD
- UWRH—Humidity
- UWIR—Infrared Temperature
- UWPH—pH
- UWPC—Process Voltage/ Current Wireless Transmitters

Wireless
Inputs

For Complete
Details Visit
[omega.com/
uwtc-rec4](http://omega.com/uwtc-rec4)



UWTC-REC4, \$275, shown smaller than actual size.

WIRELESS/DAS



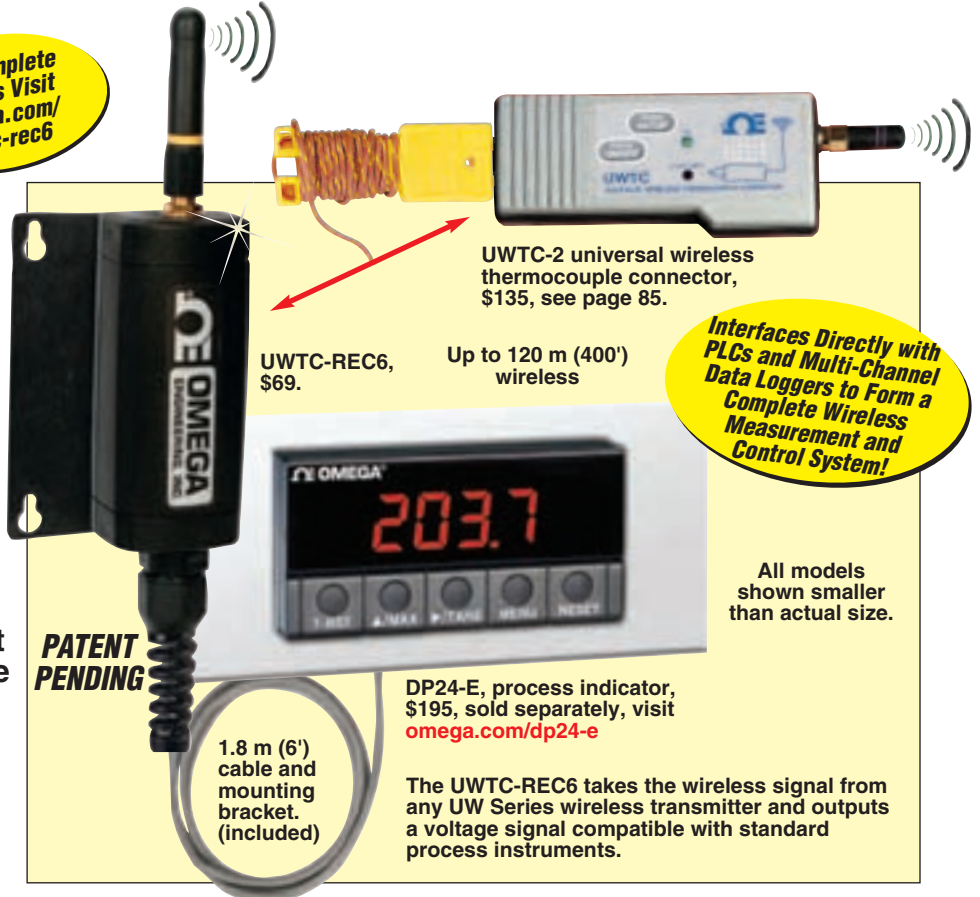
Universal Wireless Transceiver Module

Model
UWTC-REC6
\$69

For Complete
Details Visit
[omega.com/
uwtc-rec6](http://omega.com/uwtc-rec6)



- Add Wireless Capability to Any Standard Process Input Instrument
- Analog Output Signal
- Easily Connect to Panel Meters, Controllers, PLCs, Chart Recorders and Data Loggers
- Simple, Single Channel Operation
- Includes Mounting Bracket and 1.8 m (6') Integral Cable
- Powered From Host Instrument or External Power Supply
- Compatible with All OMEGA UW Series Wireless Transmitters



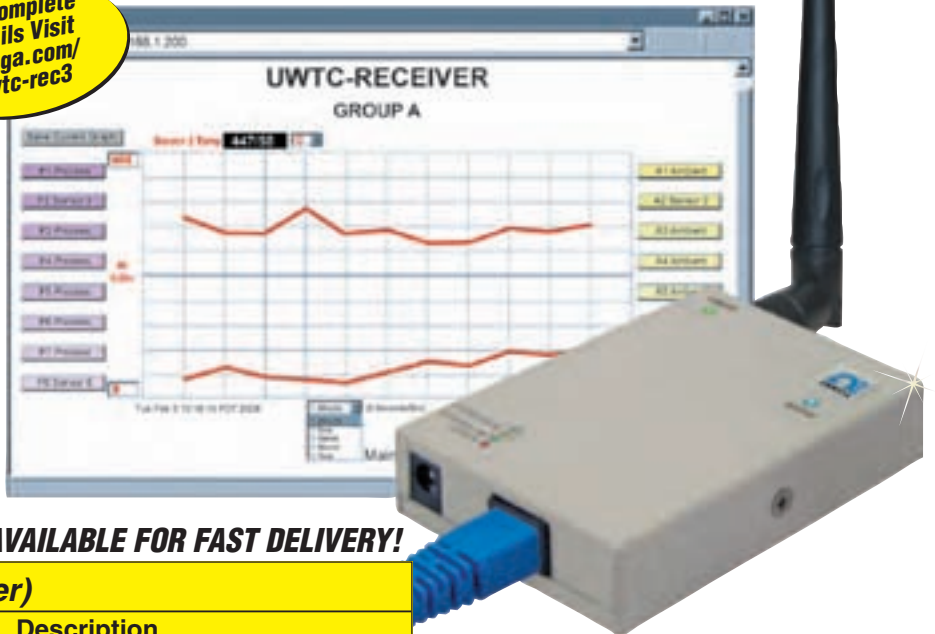
Wireless Receiver For Web-Based Monitoring

UWTC-REC3
\$235

For Complete
Details Visit
[omega.com/
uwtc-rec3](http://omega.com/uwtc-rec3)



- Connects Directly to Ethernet and Internet
- Web Server
- Works with UWTC, UWRTD, UWRH, UWIR, and UWXL Series Wireless Connectors or Probe Assemblies
- Alarms by E-mail or Text Message
- No Special Software Required



AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
UWTC-REC3	\$235	32-channel receiver with ethernet
OPC-SERVER-SOFTWARE	295	License for OPC server software

Comes complete with AC adaptor, USB programming cable for transmitter, measurement/data logging software, and operator's manual.

Ordering Example: UWTC-REC3, 32-channel receiver with UWTC-1, thermocouple to wireless transmitter (page 85) \$235 + 125 = \$360.

Wireless Connector/Transmitter Receivers

Monitor up to 48 Temperature, pH, Process or Humidity Signals



UWTC-REC Series
Starts at
\$225



UWTC-REC1-NEMA,
\$325.

UWTC-REC2-D,
\$265.

For Complete
Details Visit
[omega.com/
uwtc-rec1_2](http://omega.com/uwtc-rec1_2)



- ✓ Receive Signals from UWTC, UWRTD, UWRH, UWPH and UWPC Transmitters
- ✓ Analog Output Available
- ✓ USB Interface for Fast Installation—Cable Included!
- ✓ Digital Display Available
- ✓ Weather Resistant NEMA Enclosure Available
- ✓ TC Central Software Included—Converts Your PC into a Chart Recorder or Data Logger
- ✓ Display and Log Data, Ambient, Signal Strength and Battery Status in Real Time



UWTC-1, thermocouple transmitter, \$125, see page 85.

All models shown smaller than actual size.

Free Software
Included

Combine One of These Wireless Receivers with Multiple Wireless Connectors or Wireless Probe Assemblies to Form a Complete Wireless Measurement System!

TC Central Software

- ✓ Display, Log and Chart Data from up to 48 Wireless Instruments
- ✓ Easy Setup and Operation
- ✓ High/Low Alarms
- ✓ Programmable Engineering Units
- ✓ Transmission, Signal Strength and Battery Power Indicators
- ✓ Data Export to CSV File, Chart Export to Clipboard
- ✓ Included with UW and MWTC Wireless Instruments

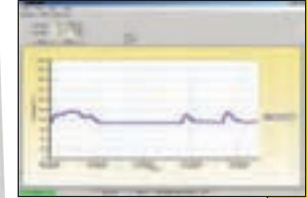
FREE
Data Logging
and Recording
Software
Included

USB
connection
(cable
included)



Laptop not included.

Charting



Data Logging

UWTC-REC2 models are available with 4 to 20 mA, 0 to 5 Vdc, 0 to 10 Vdc or Type K thermocouple output. Mating connector and cable included.

The new OMEGA® wireless connector/transmitter receivers are compact devices that receive the transmitted signals from UWTC Series transmitters, and display/log/graph the data on your PC. TC Central software, included with each unit, displays the measured and ambient temperatures, along with RF signal strength and battery condition. The TC central software can turn your PC into a recorder or data logger so readings can be saved and later printed or exported to a spreadsheet file.

The UWTC-REC1 is a 48-channel receiver with USB connection; the UWTC-REC-2 adds an analog output that can be used to retransmit a 0 to 5 Vdc, 0 to 10 Vdc, type K thermocouple or 4 to 20 mA signal to a remote meter, controller, PLC or data acquisition instrument. Both are available with an optional NEMA rated enclosure; UWTC-REC2 units are also available with an optional digital display.

UWTC-REC1 transmitter/receivers are compatible with all connector/transmitters, including:

- UWTC thermocouple connectors/transmitters
- UWRTD RTD connectors/transmitters
- UWRH relative humidity transmitter
- UWPH pH transmitters
- UWPC process transmitters

WIRELESS/DAS



Long Distance Industrial **Wireless** Transmitters and Receivers

UWXL Series
Starts at
\$395



- ✓ Thermocouple, RTD, Infrared Temperature, RH, pH, Process Voltage/Current and Flow/ Pulsed Frequency Input Models
- ✓ J, K, T, E, R, S, B, and N Thermocouples
- ✓ 385 and 392 Pt100 RTD Probes
- ✓ IP68 Rated Enclosure— Dust- and Water-Tight
- ✓ Free Software Converts Your PC Into a Multi-Channel Chart Recorder or Data Logger
- ✓ Compatible with Both UWTC-REC and UWXL-REC Wireless Receivers
- ✓ Long Battery Life



For Complete Details Visit omega.com/uwxl

UWXL-24-TC, \$395, shown smaller than actual size.

Up to 450 m (1500') Line of Sight Range

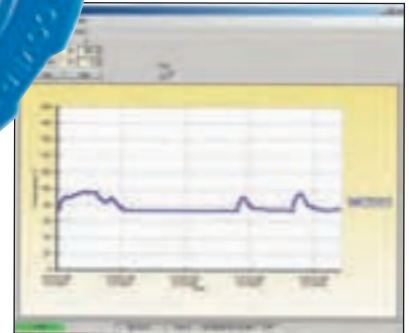


Chart up to 48 different wireless transmitters, simultaneously on your PC.

General Purpose Industrial Air Velocity/Temperature Transmitter/Indicator

FMA1000 Series
Starts at
\$665



6 OD x 305 mm L (¼ x 12") sensor probe included with 4.5 m (15') cable

HHF1000 Wireless Handheld Version on Page 146

- ✓ Measures Air Velocities up to 50.8 m/sec (10,000 FPM)
- ✓ Measures Air Temperature up to 121°C (250°F)
- ✓ High Temperature Model Measures Air Temperature up to 171°C (340°F)
- ✓ 1.5% Full Scale Accuracy (Velocity)
- ✓ 0.5% Full Scale Accuracy (Temperature)
- ✓ Hot Wire Air Velocity Sensor Design
- ✓ 250 msec Response Time Programmable up to 2 Seconds
- ✓ Large Backlit LCD Displays Air Velocity and Air Temperature Simultaneously



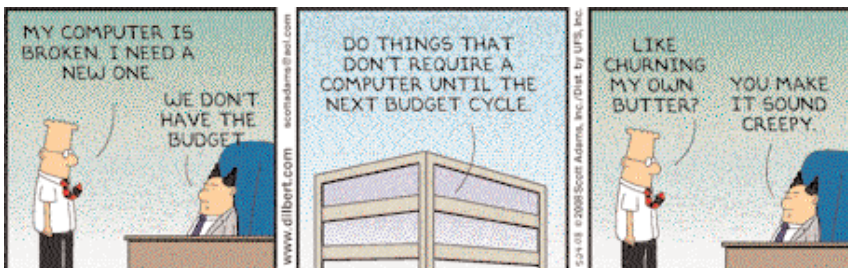
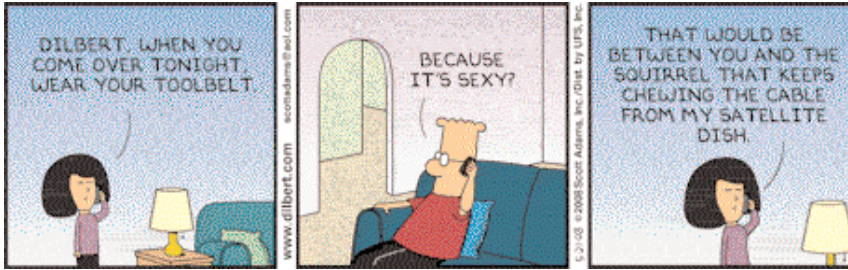
For Complete Details Visit omega.com/fma1000

FMA1001R-V1, \$695, shown smaller than actual size.

- ✓ Dual Linear Analog Outputs for Air Velocity and Temperature
- ✓ USB PC Interface with Windows® Based PC Software
- ✓ NEMA 4 (IP65) Industrial Enclosure

For a video of this product visit omega.com/video.

To Order, Call **1-800-82-66342** or Shop Online at omega.com



Dilbert © United Feature Syndicate

Wireless Humidity and Temperature Transmitter
Part of the NOMAD® Family

OM-CP-RFRHTEMP101A
Starts at
\$269

Visit omega.com/om-cp-rfrhtemp101a



Counter, Totalizer, Event Transmitter
Part of the NOMAD® Family

OM-CP-RFPULSE101A
\$249

Visit omega.com/om-cp-rfpulse101a



Wireless Voltage Transmitter
Part of the NOMAD® Family

OM-CP-RFVOLT101A
Starts at
\$249

Visit omega.com/om-cp-rfvolt101a





Digital RTD Thermometer

316 SS Enclosure for Sanitary, Wash-Down, and Marine Applications

DTG-RTD100 Series
Starts at
\$395

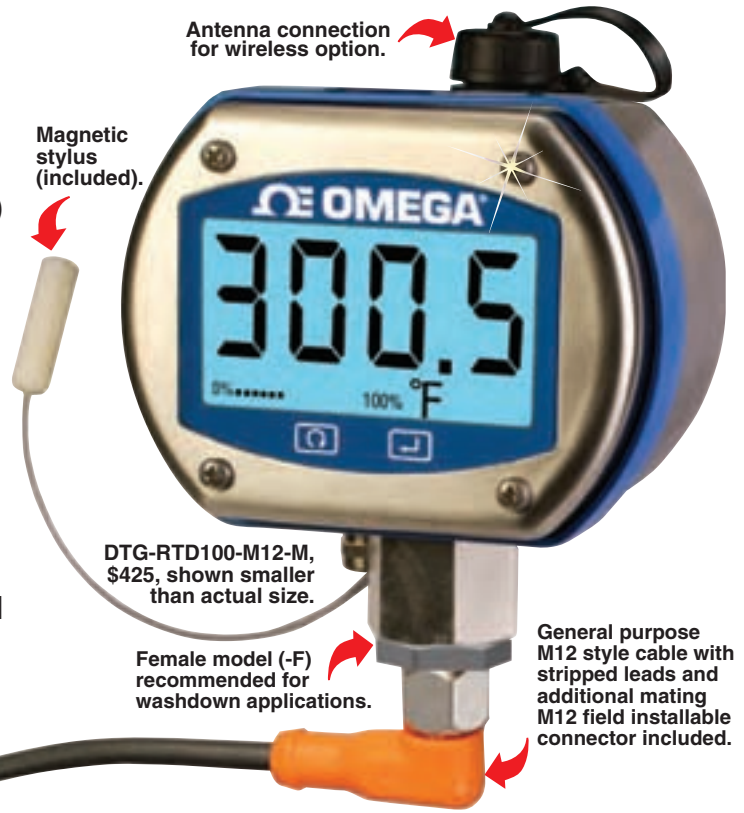


Optional

Thermocouple Models Available. For Complete Product Information Visit omega.com/dtg-tc100

For Complete Details Visit omega.com/dtg-rtd100

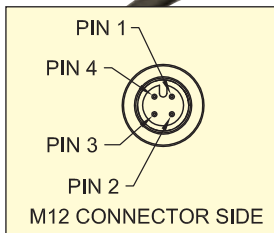
- ✓ Large Multicolor Backlit Display with 25 mm (1") Digits Readable From Over 10.7 m (35')
- ✓ Up to $\pm 0.2^{\circ}\text{C}$ ($\pm 0.3^{\circ}\text{F}$) or $\pm 0.1\%$ Rdg Accuracy
- ✓ Connects Directly to 3-Wire Pt100 RTD Sensors
- ✓ User Scaleable 4 to 20 mA, 0 to 5 or 0 to 10 Vdc Analog Output Standard
- ✓ Powered by Internal Battery or External DC Power Supply
- ✓ Included Setup and Service Software Allows for Fast Maintenance and Calibration via USB Connection
- ✓ Wireless Transmitter Option Sends Readings to Remote Locations and Allows for PC-Based Chart Recording and Data Logging
- ✓ Low Power Operation and Sleep Mode for Long Battery Life
- ✓ Display Backlight Changes from Green to Blue for Low Alarm and from Green to Red for High Alarm



M12-R-F-FM, \$11.

Field mountable connectors.

M12-S-F-FM, \$11.



M12 CONNECTOR SIDE

Optional Cables with M12C Connectors for Remote Sensor Connection

Rugged PVC jacketed cables for wash-down applications.

316 SS nut.

M12C-PVC-4-S-M-R-F-2 with right angle male and female connectors, \$21.

M12C-PVC-4-S-M-S-F-2, with straight male and female connectors \$21.

Color Codes			
Pin 1	Pin 2	Pin 3	Pin 4
Brown	White	Blue	Black

Thermometer without Sensor

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
DTG-RTD100	\$395	Digital RTD thermometer with internal terminal block connection
DTG-RTD100-M12-F	425	Digital RTD thermometer with female M12 connection
DTG-RTD100-M12-M	425	Digital RTD thermometer with male M12 connection

Comes complete with operator's manual, USB cable, user software and two 3.6V lithium "C" cell batteries.

* Specify probe length; "300" for 3", "400" for 4", "500" for 5", or "600" for 6".

** Specify analog output signal: "V1" for 0 to 5 Vdc; "V2" for 0 to 10 Vdc, "TC" for Type K thermocouple, or "MA" for 4 to 20 mA signal.

To order with angle bracket option, add suffix "-AB" to model number and \$45 to price.

To order with wireless transmitter option, add suffix "-W" to model number, and \$100 to price.

Note: Units with the wireless option require a UWTC series receiver or transceiver to operate.

Ordering Examples: DTG-RTD100-AB-100-1/4-600-E-W-AB, RTD meter with integral Pt100, 6" long, 1/4" dia industrial probe with angle bracket and wireless options, and UWTC-REC1, 48-channel USB receiver, \$465 + 45 + 100 + 225 = \$835.

DTG-RTD100-PRS-3-100-AS-300-D1, RTD meter with integral Pt100, 3" L, 1/4" dia sanitary probe, \$490.

DTG-RTD100-M12-M, RTD meter with M12 connector, \$425.

1/8 DIN Graphic Display Meter for Process and Temperature Measurement with Optional Alarm Relays, Analog Output, and Built-In Wireless Receiver



For Complete Details Visit omega.com/xy1701

XY1700 Series Starts at **\$255**



XY1701, graphic panel meter shown in charting mode, \$255.

- ✓ Universal Model for Thermocouples, RTD and Process (Vdc and Current)
- ✓ Monochrome, High Resolution Graphic Display with High-Intensity Backlighting
- ✓ Display Can Be Configured for Bar Graph, Charting or Standard Segment Format
- ✓ 1/8 DIN Enclosure

PATENT PENDING

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
XY1701	\$255	Graphic panel meter
XY1701-AR	295	Graphic panel meter with alarm relays and analog output
XY1701-230VAC	255	Graphic panel meter (230 Vac)
XY1701-AR-230VAC	295	Graphic panel meter with alarm relays and analog output (230 Vac)

Comes complete with operator's manual.
 For models with built-in wireless receiver, add "-W" to model number and \$45 to price.
Ordering Example: XY1701, 1/8 DIN graphic panel meter, \$255.

Temperature/Relative Humidity/Infrared Bench Top Handheld Meter With Laser Dot/Circle Sighting, Data Logging and Wireless Sensor Probe Option

RH511 Series Starts at **\$355**



- ✓ Measures Temperature and Relative Humidity
- ✓ Measures Non-Contact Surface Temperature
- ✓ Patented Built-In Laser Sighting
- ✓ Two Type K Thermocouple Inputs
- ✓ Triple Backlit LCD Display
- ✓ Min/Max/Hold Functions
- ✓ Data Logging up to 32,000 Points

For Complete Details Visit omega.com/rh511

RH511, \$355.



PATENTED

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
RH511	\$355	Portable temperature/relative humidity/infrared meter with wired sensor probe
RH511-W9	399	Portable temperature/humidity/infrared meter with wireless sensor probe for USA and Canada (915 MHz)
RH511-W8	399	Portable temperature/humidity/infrared meter with wireless sensor probe for Europe (868 MHz)

Comes complete with a wired or wireless temperature/humidity sensor probe, Type K thermocouple, 6 "AA" size lithium batteries, USB cable, DC adaptor, software CD, mini-tripod, 1.8 m (6') sensor extension cable, operator's manual, and soft carrying case.
Ordering Examples: RH511-W9, portable temperature/humidity meter with wireless sensor probe (915 MHz), \$399. OCW-2, OMEGACARESM extends standard 1-year warranty to a total of 3 years (\$63), \$399 + 63 = \$462.
 RH511, portable temperature/humidity meter with wired sensor probe, \$355.

To Order, Call **1-800-82-66342** or Shop Online at omega.com

WIRELESS/DAS



Miniature **Wireless** Thermocouple Connectors For Short Range Laboratory and Light Industrial Uses

MWTC Series
Starts at
\$79



MWTC-A-K, \$79, shown actual size.

For Complete Details Visit omega.com/mwtc_series



PATENT PENDING

- Available in 9 Thermocouple Calibrations
- Built-In Cold Junction Compensation and Linearization
- MWTC-REC Receivers Work with Multiple Wireless Remote Connectors
- Low Power Operation and Sleep Mode for Extended Battery Life
- Each Wireless Connector Transmits Measured and Ambient Temperatures in Real Time
- Free Software Converts Your PC Into a Multi-Channel Chart Recorder or Data Logger

868 or 915 MHz

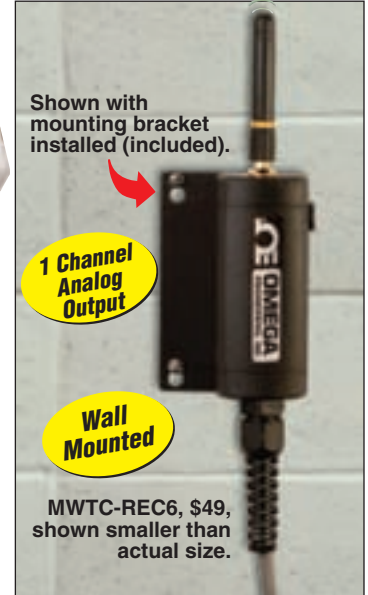


MWTC-REC1, \$116, shown smaller than actual size.

**48 Channels
USB Connection**



MWTC-REC5-915, \$35, shown smaller than actual size.



Shown with mounting bracket installed (included).

**1 Channel
Analog Output**

Wall Mounted

MWTC-REC6, \$49, shown smaller than actual size.

Miniature Data Logging Connectors Record and Store Over 65,000 Data Readings *The Smart Connector™*

MWTC-D Series
Starts at
\$89

PATENT PENDING



MWTC-D-K, \$89, shown actual size.

For Complete Details Visit omega.com/mwtc-d

**Download
Stored Data via USB
Connection or
Optional Wireless
Receiver**



868 or 915 MHz

- For J, K, T or E Thermocouples
- Built-In Cold Junction Compensation and Linearization
- Low Power Operation and Sleep Mode for Extended Battery Life
- Free Software Converts Your PC Into a Multi-Channel Chart Recorder or Data Logger
- Software Meets FDA CFR21 Part 11 Requirements



Laptop not included.

Up To 48 Channels!

MWTC-REC5-915, \$35, shown actual size.

The MWTC-REC5 wireless USB receiver has all the features of the MWTC-REC1 in a miniature package the size of a flash drive. Comes complete with FREE user software to record and log data from multiple MWTC thermocouple connectors.

Wireless Transmitter Enclosure

Wash-Down, Sanitary and Marine Applications

For MWTC Miniature Wireless Thermocouple Connectors



MWTC-NEMA Series

\$39

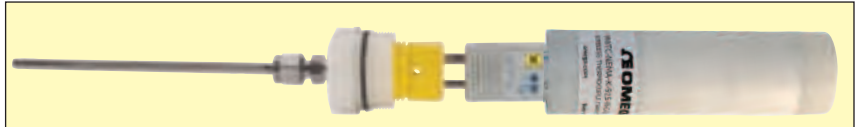
All Models



MWTC-NEMA, empty casing, shown smaller than actual size.

For Complete Details Visit omega.com/mwtc-nema

- ✓ Compact Polypropylene Enclosure
- ✓ NEMA 4X (IP65) Protection
- ✓ Rugged, Splash-Proof Design
- ✓ Available for 1/8" to 1/4" or 3 to 6 mm OD Thermocouple Probes



MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
MWTC-NEMA-18	\$39	NEMA 4X (IP65) enclosure for MWTC wireless connector, for 1/8" dia. probes
MWTC-NEMA-316	39	NEMA 4X (IP65) enclosure for MWTC wireless connector, for 3/16" dia. probes
MWTC-NEMA-14	39	NEMA 4X (IP65) enclosure for MWTC wireless connector, for 1/4" dia. probes

Ordering Example: MWTC-NEMA-18 enclosure, with MWTC-A-K-915 miniature wireless connector for Type K thermocouples (915 MHz RF frequency), with KQSS-18G-18, visit omega.com/jqin. Type K thermocouple, 1/8" OD 304 SS sheath, grounded junction, 18" length (16.75" usable length), \$39 + 79 + 23.90 = \$141.90.

Universal Wireless RS232 to USB Transceiver

WRS232-USB

\$159

For Both RS232 and USB Modules



For Complete Details Visit omega.com/wrs232

WUSB wireless receiver, \$100.

- ✓ Converts Any RS232 Device For Wireless Communication
- ✓ Wireless USB Interface Directly to PC
- ✓ One Wireless Receiver Module Operates Multiple Wireless Transmitter Modules
- ✓ WRS232 wireless transmitter, \$69. Optional UNIV-AC-100/240 AC adaptor, \$25, sold separately.
- ✓ RF Transceiver Carrier (ISM 2.4 GHz)
- ✓ RF Range: Up to 40 m (130') Indoor/Urban [Up to 120 m (400') Outdoor/Line of Sight]

Convert RS232 to USB Wirelessly

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
WRS232-USB	\$159	Wireless transmitter and receiver modules, with USB cable and connectors/adaptors
WRS232	69	Wireless RS232 transceiver module, with connectors/adaptors
WUSB	100	Wireless USB transceiver module, with USB cable

Comes complete with software and operator's manual.
 Ordering Example: WRS232-USB, wireless transmitter and receiver modules, RS232 cable with RJ12 to DB9 connector, DB9 male/male connector, and USB cable, \$159.

To Order, Call **1-800-82-66342** or Shop Online at omega.com

WIRELESS/DAS



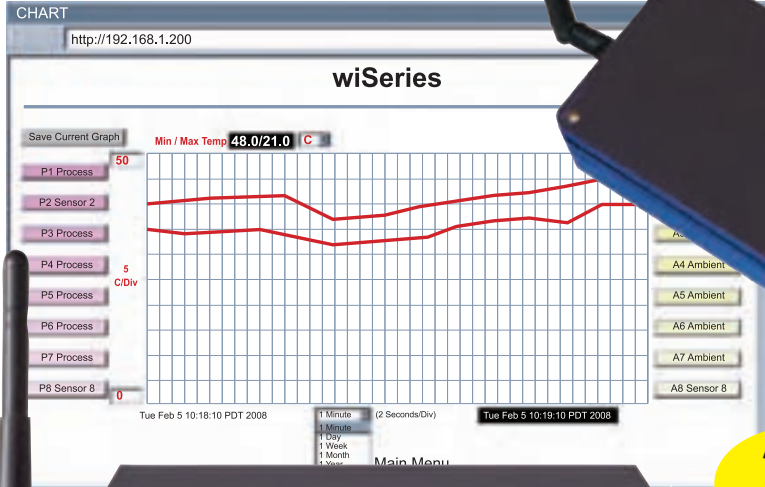
wireless Meter/Scanner and Controller

wi8 Series
\$395
 All Models



A Complete Wireless System Requires at Least 1 Receiver (wi8XX) and 1 End Device (UWTC or zED)

Wireless antenna with 0.3 m (1') cable included.



Works with zED-TP1-P, \$195, see page 103.

For Complete Details Visit omega.com/wi8_series

Works with UWTC-NB9-CASS-18-U-12 wireless thermocouple/transmitter assembly, \$195, see page 89.



wi833-U, \$395.

wiSeries

- User-Friendly, Simple to Configure
- Wireless Inputs: Thermocouple, RTD, Temperature
- Embedded Ethernet (Standard)
- 2 Alarm Outputs: Solid State Relays (SSRs), DC Pulse, Mechanical Relays, Analog Voltage and Current
- Free Software

wiSeries Wireless Monitoring and Control System

The new wiSeries wireless monitoring and control system features meters and scanners compatible with a large and growing number of our wireless sensors:

UWTC "Universal Wireless Thermocouple"
 Type J, K, T, E, R, S, B, N, and C.

UWRD "Universal Wireless RTD"

zSeries Wireless End Devices with sensors for temperature.

The Smart Connector™



Works with UWTC wireless thermocouple connector, \$125, see page 85.

All models shown smaller than actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model No.	Price	Description
wi833-U	\$395	Wireless meter/controller for UWTC units with 2 relays: form "C" SPDT 3 A @ 120 Vac, 3 A @ 240 Vac, embedded ethernet, 90 to 240 Vac/dc, 50 to 400 Hz
wi853-ZT	395	For zSeries units with analog output 0 to 10 Vdc or 0 to 20 mA @ 500 Ω max and form "C" relay

Other outputs options are available, please contact our Engineering Department.
 For low power option (20 to 36 Vdc, 24 Vac) add "-DC" to model number and add \$25 to price, ex: **wi833-ZT-DC**, \$395 + 25 = \$420.
Ordering Example: wi833-U, wireless meter/controller for UWTC units with 2 relays, \$395.

100

To Order, Call 1-800-82-66342 or Shop Online at omega.com

Wireless Benchtop Meter, Scanner and Controller With Embedded Ethernet Connectivity

For Complete Details Visit omega.com/mdswi8



MDSwi8 Series
\$545
All Models



- ✓ Read 8 Wireless Sensors Simultaneously
- ✓ Portable, Rugged Metal Benchtop Enclosure with Tilt Handle
- ✓ User-Friendly, Simple to Configure
- ✓ Wireless Inputs: Thermocouple, RTD, Temperature
- ✓ Embedded Ethernet Standard



UWTC-2, thermocouple connector, \$135.
All models shown smaller than actual size.

MDSwi8, \$545.

wiSeries

wireless DIN Rail Monitor and Controller

For Complete Details Visit omega.com/widr_series

All models shown smaller than actual size.

wiDR
\$395
All Models



- ✓ User-Friendly, Simple to Configure
- ✓ Wireless Inputs: Thermocouple, RTD, Temperature
- ✓ Embedded Ethernet (Standard)
- ✓ 2 Alarm Outputs: Solid State Relays (SSRs), DC Pulse, Mechanical Relays, Analog Voltage and Current
- ✓ Free Software

wiSeries



Works with zED-T, \$95, see page 103.

wiDR33-U, \$395.

Works with UWTC wireless thermocouple connector, \$125, see page 85.

Wireless antenna with 0.3 m (1') cable included.

WIRELESS/DAS



Visit omega.com/dilbert

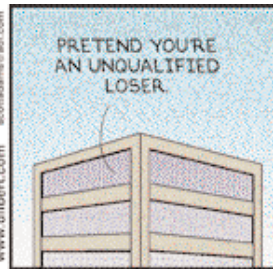
for your daily dose of DILBERT!

DILBERT® by Scott Adams

Wireless Temperature Transmitter

Visit omega.com/omwt-temp15

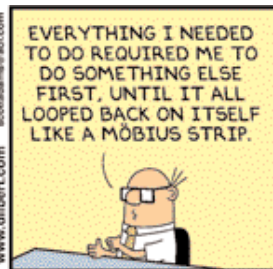
OMWT-TEMP15
\$137



Wireless Current Transmitter

Visit omega.com/omwt-ain20ma

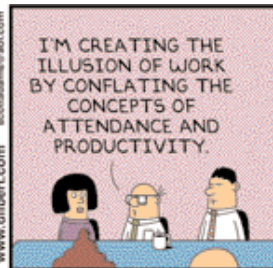
OMWT-AIN20MA
\$156



Wireless Repeater

Visit omega.com/omwt-rep-900

OMWT-REP-900
\$455



Dilbert © United Feature Syndicate

High Power wireless Transmitters Ethernet or Internet Connection

For Complete
Details Visit
[omega.com/
zed-p_series](http://omega.com/zed-p_series)



zED-TP1-P, \$195,
shown smaller
than actual size.



Display Models
Start at
\$245

zSeries
Starts at
\$195



- Optional
- Web Server
 - Email Alarms
 - No Special Software Required
 - High Power 1 Kilometer
 - NEMA 4 (IP65) Enclosure

wiSeries

zED-TP1-LCD, \$245,
shown smaller than
actual size.

- Models Available for:
- Temperature
 - Barometric Pressure
 - Humidity
 - Thermocouple
 - Analog Voltage

WIRELESS/DAS

Wireless Sensor System Ethernet or Internet Connection

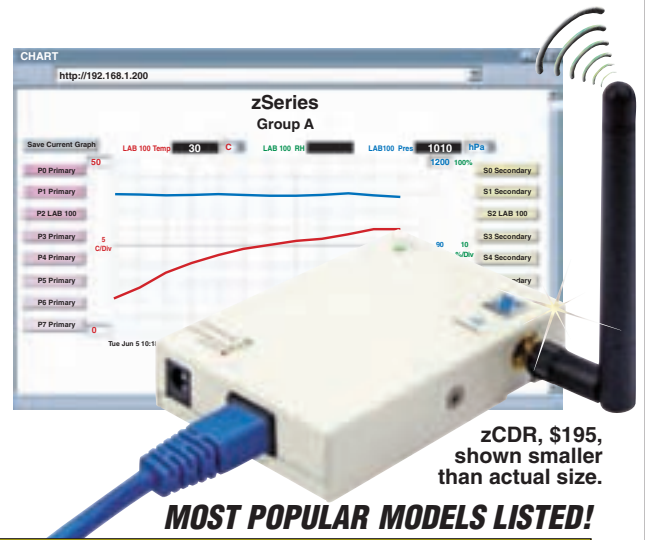
zSeries
Starts at
\$95



**Internet
Enabled!**

For Complete
Details Visit
[omega.com/
zseries](http://omega.com/zseries)

- Temperature
- Humidity
- Barometric Pressure
- Email Alarms
- Web Server
- No Special Software Required



zCDR, \$195,
shown smaller
than actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Description	Price
zCDR	Coordinator, which can support up to 32 end devices	\$195
zED-T	End device unit with internal temperature sensor	95
zED-TH	End device unit with internal temperature and humidity sensor	150
zED-THP	End device unit with external temperature and humidity sensor	190

Other sensor combinations available, contact our Sales Department for more information.

Comes complete with software and operator's manual.

Ordering Example: Two zED-TH-THP end units with an internal temperature/RH sensor and an external temperature/RH sensor industrial probe with 3 m (10') cable and zCDR coordinator, \$245 x 2 + 195 = \$685.

To Order, Call **1-800-82-66342** or Shop Online at omega.com



Wireless Infrared Thermometers

Dot/Circle Switchable Laser Sighting, Thermocouple Input, Distance Measurement and Close Focus Models

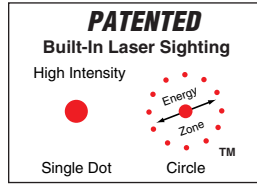
OMEGASCOPE®
OS530E
Starts at



\$295

For Complete Details Visit omega.com/os530e-w9

- ✓ Built-In **Wireless** Measurement
- ✓ High-Performance, Rugged Design
- ✓ Built-In Patented Laser Sighting is Switchable Between Laser Dot and Circle Patterns
- ✓ Distance Measuring Option Available
- ✓ Close-Focus, and High-Resolution Models Available
- ✓ Models Available with Temperature Ranges from -23 to 871°C (-10 to 1600°F)



Laser Circle to Dot Switchable



A \$45 value included **FREE!**

SPHT-K-6, Type-K surface probe, included with all thermocouple input models.

MONOGRAM® SERIES



OS534E-W9, \$650.

High-Performance High-Temperature **Wireless** Handheld Infrared Thermometer

With Optional Sighting Scope and Distance Measurement

OMEGASCOPE®
OS523E/OS524E
Starts at

\$1095



For Complete Details Visit omega.com/os523e_os524e

- ✓ Built-In **Wireless** Measurement
- ✓ High-Performance, Rugged Design
- ✓ Models Available with Temperature Ranges to 2482°C (4500°F)
- ✓ Built-In Patented Laser Dot/Circle Switch Sighting
- ✓ Emissivity Adjustable from 0.1 to 1.00 in 0.01 Steps
- ✓ Distance-Measuring Option, Field-Mountable or Built-In [0.9 to 9 m (3 to 30') Range]
- ✓ Custom LCD Indicates Current with Min, Max, Average, or Differential Temperatures
- ✓ 1 mV/Degree Analog Output Standard (0.5 mV/Degree on OS524E)
- ✓ RS232 Output with Free Data Logging Software
- ✓ Ambient Target Temperature Compensation
- ✓ Audible and Visible Alarms
- ✓ Data Storage for Up to 800 Temperature Points



PATENTED

OMEGASCOPE® OS523E-2-SC-W9 unit with sighting scope, precisely aligned with infrared field of view. Has 2:1 magnification, \$1195.

Wireless Portable Temperature/ Humidity Circular Chart



PATENTS PENDING

SUPERRECORDER™

CTXL-TRH-W

Starts at

\$895

For Complete
Details Visit
omega.com/ctxl

Wireless
Transmitter – Up
to 33.5 m (110')
Indoors from
Recorder



Optional

- ✓ Record Temperature/
Humidity with Remote
Wireless Probe
- ✓ RF Range: 90 m Line of
Sight, 33 m Indoors
- ✓ Wall or DIN Rail Mount
Remote Probe
- ✓ 1, 7 or 32 Day Recording
- ✓ Easy to Read Dual Channel
Backlit LCD Readout
- ✓ Convenient Front Panel
Programming/Operation
- ✓ Monitor Min/Max/Avg
- ✓ High/Low A/V Alarms
- ✓ Dual High Alarm Relays,
Dual Low Alarm Voltage
Outputs
- ✓ Large Double Sided Charts
with Magnetic Mount Hub
- ✓ Benchtop or Wall Mount
with Built-In Chart Lights
- ✓ Battery or AC Power

The CTXL-TRH recorder is designed for both local and remote monitoring of temperature and relative humidity. The CTXL-TRH-W features a wireless sensor probe that can be placed up to 90 m (300') line of sight or 33 m (110') indoors away from the recorder.

A circular chart recorder with a large, 203 mm (8") diameter chart, the CTXL has a custom LCD that displays the current

CTXL-TRH-W temperature/
humidity recorder, \$895, includes
CTXL-PT wireless transmitter and
CTXL-PR receiver, shown smaller
than actual size.



Large 200 mm
(8") Chart
2-Sided

temperature and humidity, and can indicate the min, max or average input values as well.

The CTXL-TRH comes with a Windows-based application program that allows the user to monitor the temperature and relative humidity using their PC. You can log the data to a file, as well as display the information on a custom on-screen chart; set the alarms on the recorder, and display their status on-screen.

You can also re-scale the recorder chart paper, setting temperature and %RH limits anywhere within the range of the unit. This allows you to use the 8" chart to display narrow temperature and humidity bands, for greater resolution.

PC Application
Software
Included

Windows Software Included!

- Monitor Temperature and Humidity
- Line Graph and Store Readings in Real Time and Download Recorded Data
- Set the Line Graph Scales to Auto, Logarithmic, or Manual
- Re-Scale the Recorder Chart Paper
- Print Line Graphs to a Printer



CTXL-PT
Remote wireless
transmitter,
included, shown
smaller than
actual size.

**PATENT
PENDING**



WIRELESS/DAS



Temperature and Humidity Virtual Chart Recorder

For Complete Details Visit omega.com/ithx-sd

iTHX Series Starts at **\$395**



iServer

- ✓ Web Server
- ✓ Alarms by Email or Text Message
- ✓ No Special Software Required
- ✓ Records Years of Data on Popular SD Cards



iTHX-SD, shown smaller than actual size with SD card (included), \$395.



View Temperature + Humidity with a Web Browser

MicroServer™

Monitor Temperature Over the Internet

For Complete Details Visit omega.com/isd-tc

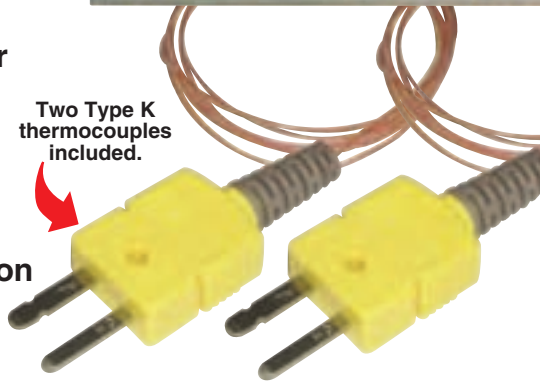
iSD-TC **\$495**



iSD-TC, \$495, shown smaller than actual size.

- ✓ Virtual Chart Recorder
- ✓ Web Server
- ✓ Dual Thermocouple (10 Types)
- ✓ Alarms by Email or Text Message
- ✓ Record Years of Data on Popular SD Cards
- ✓ No Special Software Required

Two Type K thermocouples included.



Environmental Surveillance Over the Internet

Web-Based Remote Surveillance of Temperature + Humidity



iSD-TH Series Starts at **\$495**

iSD-TH



For Complete Details Visit omega.com/isd-th



- Virtual Chart Recorder
- Web Server
- Alarms by Email or Text Message
- No Special Software Required
- Record Years of Data on Popular SD Cards



iSD-TH, \$495, shown smaller than actual size.

iServer MicroServer™ for Serial-to-Ethernet Applications

EIT-W **\$195**



Connect Any Serial Device to Ethernet LAN and the Internet

For Complete Details Visit omega.com/eit-w

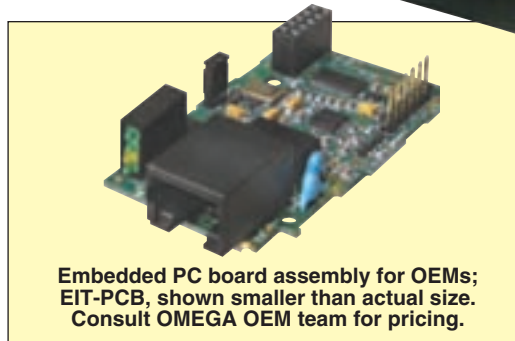
- Put Any Serial Device On the Network in Minutes
- Bridge RS232/RS485 to TCP/IP
- Auto 10/100 Ethernet Half/Full Duplex
- Built-In Web Server
- TCP, UDP, SNMP, SMTP, TFTP, ICMP, Telnet, DHCP, DNS, HTTP, and ARP
- MODBUS® RTU to MODBUS TCP/IP Bridging
- Email Notifications and SNMP Traps
- 1 to 6 Programmable I/Os
- Firmware Upgrade Over Ethernet
- Custom Firmware/Private Labeling for OEMs

Wall Mount or Benchtop for Commercial Applications



Quickly Configured Through a Web Browser

EIT-W, \$195, shown smaller than actual size.



Embedded PC board assembly for OEMs; EIT-PCB, shown smaller than actual size. Consult OMEGA OEM team for pricing.



WIRELESS/DAS



Visit omega.com/dilbert

for your daily dose of DILBERT!

DILBERT® by Scott Adams

Analog and Digital Output Signal Conditioners/Transmitters

IDRN/iDRX Series Starts at **\$250**

Visit omega.com/drn-drx



4-Channel RTD Input Data Acquisition Module

Visit omega.com/pt-104a

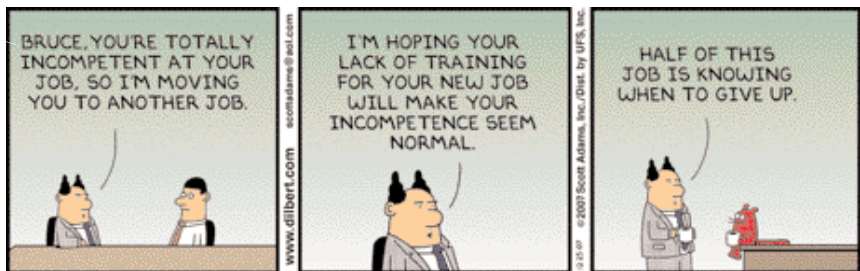


PT-104A **\$675**

Ethernet-Based Data Acquisition System Components

OMB-DAQSCAN-2000 Series Starts at **\$1999**

Visit omega.com/omb-daqscan-2000



Dilbert © United Feature Syndicate

Transition Joint Thermocouple Probe

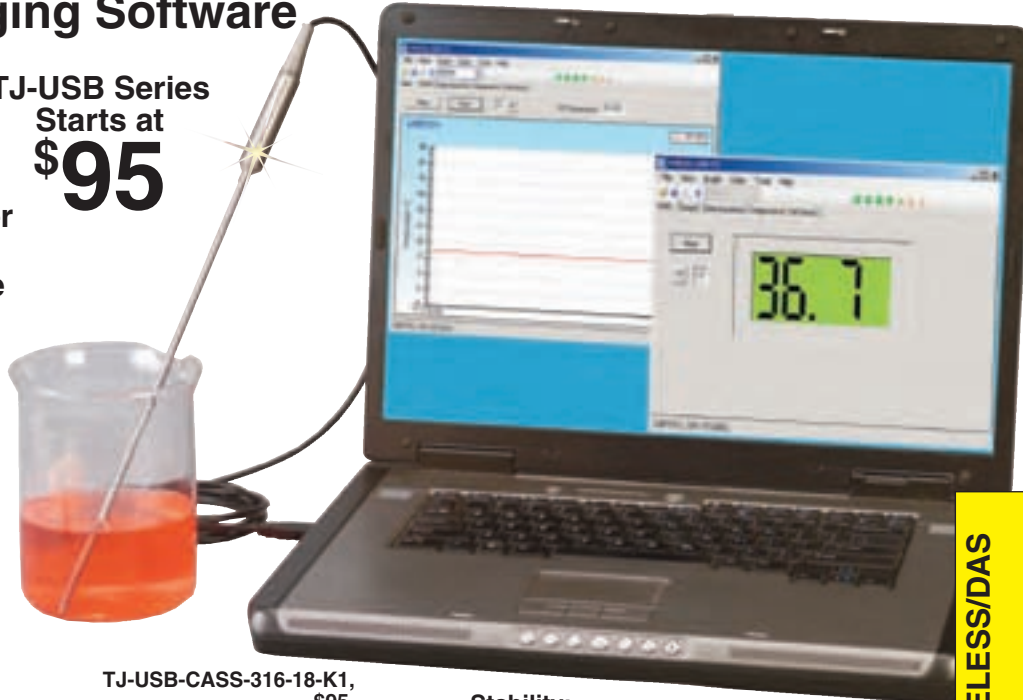
Features USB Interface and Free Recording and Logging Software

Relative Humidity Probe with USB Connection Available, See Page 110



TJ-USB Series Starts at **\$95**

- ✓ Connects Directly to a USB Port on Your Computer
- ✓ Free Software Converts Your PC into a Temperature Meter, Data Logger or Chart Recorder
- ✓ Available "Off-the-Shelf" in Two Different Measurement Ranges
- ✓ 457 and 610 mm (18 and 24") Probe Lengths Standard
- ✓ Available in 4.5 or 6 mm (3/16 or 1/4") Diameter 304 SS, Inconel® and High Performance Super OMEGA CLAD® XL Sheaths



TJ-USB-CASS-316-18-K1, \$95.

Laptop not included.

OMEGA's TJ-USB Series of thermocouple probes with direct USB connection feature a rugged transition joint construction, 2 m (6') of shielded output cable and free user software that converts your PC into a temperature meter, chart recorder or data logger. Probes are available off-the-shelf in 18 or 24" lengths and with 0.187 or 0.250" 304 stainless steel, Inconel® or high performance Super OMEGA CLAD® XL sheathing.

Specifications

Integral Thermocouple: Type K (ungrounded)

Measurement Range:

- K1: -73 to 315°C (-100 to 600°F)
- K2: -200 to 1000°C (-328 to 1832°F)

Note: For 304 stainless steel max temperature is 850°C (1562°F)

Accuracy:

- K1: ±1°C (1.8°F)
- K2: ±3°C (5.4°F)

Resolution:

- USB-TC-K1: 0.1°
- USB-TC-K2: 1°

Free Software!

Stability:
 USB-TC-K1: ±0.25°C,
 USB-TC-K2: ±0.5°

Cold Junction Compensation (Automatic): -10 to 70°C

Operating Environment (Cold End): -10 to 70°C, 0 to 95% relative humidity (non-condensing)

PC Interface: USB

USB Cable: Integral to probe, 2 m (6') (shielded) Type A plug

Software (Included): Requires Windows® 2000, XP, VISTA (32-bit) or Windows 7 (32-bit)

Weight: 70 g (2.5 oz)

■ MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description
TJ-USB-CASS-(*)-(**)-K1	\$95	304 SS transition joint probe -73 to 315°C (-100 to 600°F)
TJ-USB-CASS-(*)-(**)-K2	95	304 SS transition joint probe -200 to 850°C (-328 to 1562°F)
TJ-USB-CAIN-(*)-(**)-K1	95	Inconel transition joint probe -73 to 315°C (-100 to 600°F)
TJ-USB-CAIN-(*)-(**)-K2	95	Inconel transition joint probe -200 to 1000°C (-328 to 1832°F)
TJ-USB-KQXL-(*)-(**)-K1	105	Nickel-chrome transition joint probe -73 to 315°C (-100 to 600°F)
TJ-USB-KQXL-(*)-(**)-K2	105	Nickel-chrome transition joint probe -200 to 1000°C (-328 to 1832°F)
RH-USB	145	Humidity/temperature probe with USB
HX70-MKIT	15	Wall/duct mounting kit for RH-USB
CAL-3†	125	NIST traceable calibration with 3 data points

*Insert "316" for 4.5 mm (0.187" diameter sheath) or "14" for 6 mm (0.250" diameter sheath).

**Insert "18" for 457 mm (18" probe length) or "24" for 610 mm (24" probe length).

Ordering Examples: TJ-USB-CASS-14-24-K1, heavy-duty USB TJ probe, 304 SS sheath, 6 mm (1/4") OD, 610 mm (24") long with integral USB cable and Type A connector, -73 to 315°C (-100 to 600°F) temperature range, \$95.

TJ-USB-KQXL-316-18-K2, heavy duty USB TJ probe, Nickel-Chrome sheath, 4.5 mm (3/16") OD, 457 mm (18") L with integral USB cable and Type A connector, -200 to 1000°C (-328 to 1832°F) temperature range, \$105.



Economical Humidity/Temperature Sensor Features USB Interface and Free Recording and Logging Software

For Complete
Details Visit
omega.com/rh-usb

RH-USB
\$145

Thermocouple
Probe with USB
Connection Available,
See Page 109

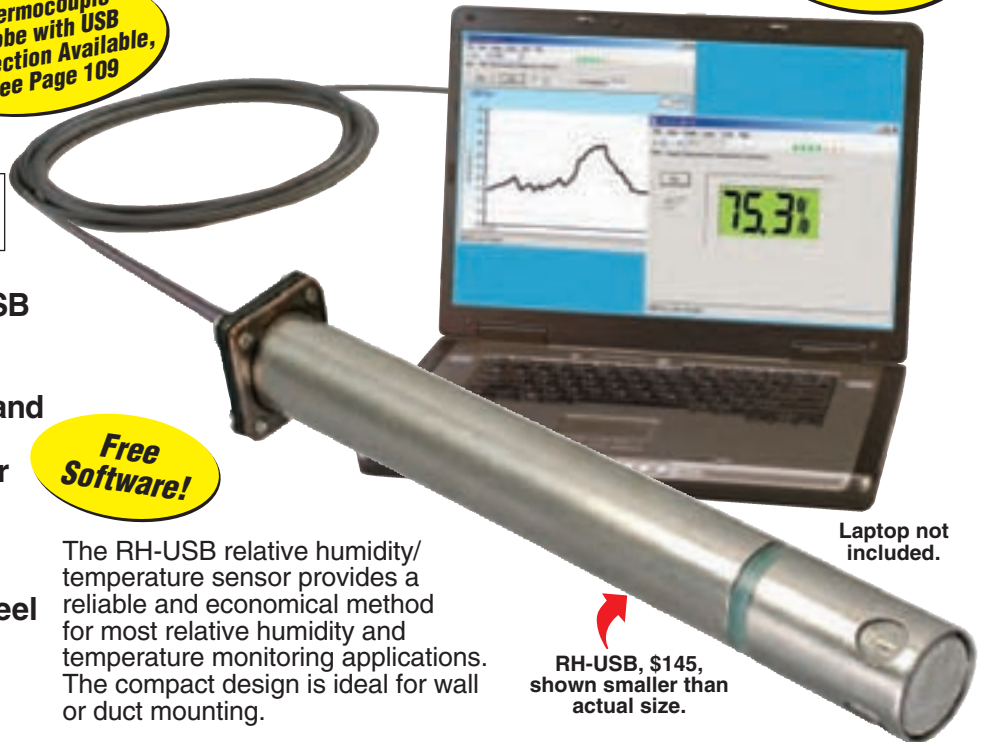


Optional

- ✔ Connects Directly to a USB Port on Your Computer
- ✔ Free Software Converts Your PC into a Humidity and Temperature Meter, Data Logger or Chart Recorder
- ✔ Accurate to $\pm 3\%$ RH, $\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$)
- ✔ 316 SS Housing and Removable Stainless Steel Sensor Filter
- ✔ Suited for Wall or Duct Mounting

Free Software!

The RH-USB relative humidity/temperature sensor provides a reliable and economical method for most relative humidity and temperature monitoring applications. The compact design is ideal for wall or duct mounting.



Laptop not included.

RH-USB, \$145, shown smaller than actual size.

Universal Thermocouple Connector Direct USB to PC Connection

UTC-USB
\$59

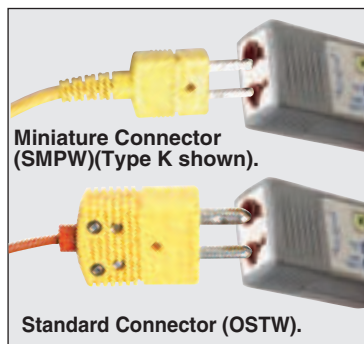
Shown smaller than actual size.

For Complete
Details Visit
omega.com/utc-usb



Includes 1.8 m (6') USB cable.

- ✔ For J, K, T, E, R, S, B, C and N Thermocouples
- ✔ Built-In Cold Junction Compensation and Linearization
- ✔ Accepts Both Standard and Miniature Connectors
- ✔ Includes Free Software for Display, Data Logging and Chart Recording



Miniature Connector (SMPW)(Type K shown).

Standard Connector (OSTW).



Laptop not included.

The new UTC-USB universal thermocouple connector accepts the signal from any of 8 thermocouple types, and lets you display actual temperature readings on your PC, through a standard USB port.

The UTC-USB features OMEGA's universal input connection, so you can quickly attach both standard and miniature size thermocouple connectors. A standard USB cable is included.



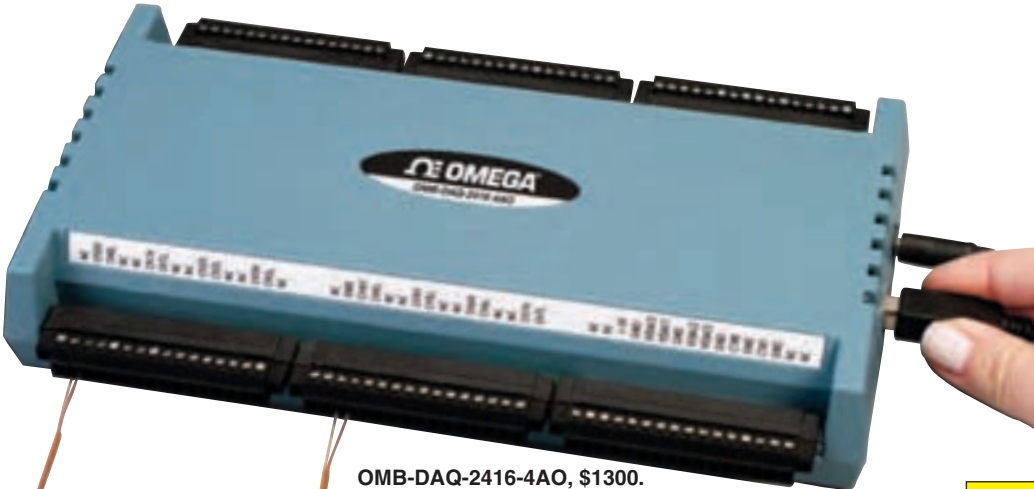
High Performance Multi-Function I/O USB Data Acquisition Modules

OMB-DAQ-2416 Series
Starts at

\$1100



For Complete
Details Visit
[omega.com/
omb-daq-2416](http://omega.com/omb-daq-2416)



OMB-DAQ-2416-4AO, \$1300.

- ✓ 16 Differential or 32 Single-Ended Analog Inputs, Expandable to 32 Differential/64 Single-Ended Channels
- ✓ 24-Bit Resolution
- ✓ Thermocouple or Voltage Input
- ✓ Nine Software-Selectable Voltage Ranges: $\pm 20V$, $\pm 10V$, $\pm 5V$, $\pm 2.5V$, $\pm 1.25V$, $\pm 0.625V$, $\pm 0.312V$, $\pm 0.156V$, and $\pm 0.078V$

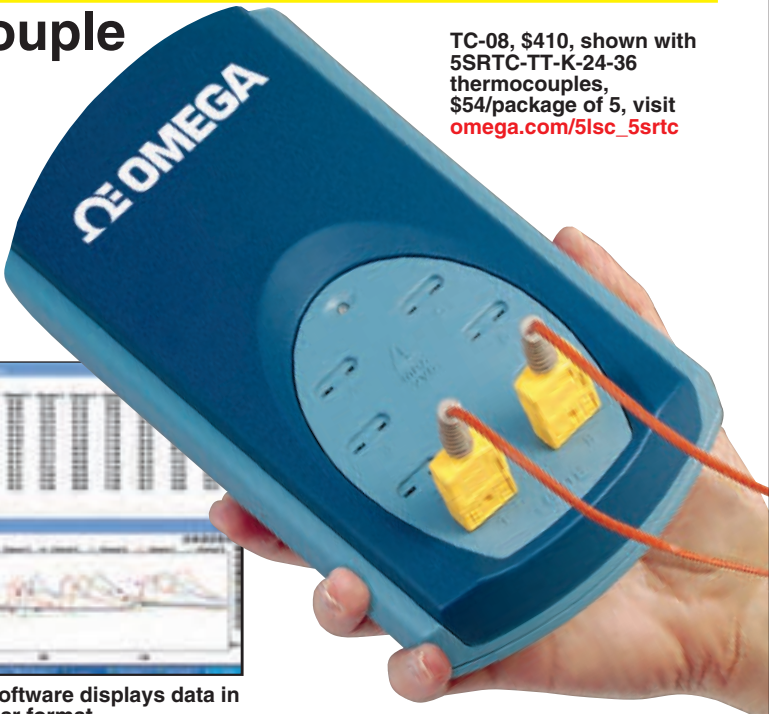
- ✓ Analog Inputs Can be Configured for Thermocouples (Up to 16 Differential Inputs)
- ✓ 1000 Samples/Sec Aggregate Throughput

- ✓ Built-In Cold Junction Compensation and Open Thermocouple Detection
- ✓ Eight Lines of High-Drive Digital I/O
- ✓ Two 32-Bit Counters

8-Channel USB Thermocouple Data Acquisition Module

TC-08
\$410

For Complete
Details Visit
omega.com/tc-08



TC-08, \$410, shown with 5SRTC-TT-K-24-36 thermocouples, \$54/package of 5, visit omega.com/5lsc_5rtc

- ✓ Measures from -270 to $1820^{\circ}C$ (-454 to $3308^{\circ}F$)
- ✓ Accepts Thermocouple Types J, K, T, E, R, S, B and N
- ✓ Automatic Cold Junction Compensation
- ✓ High Accuracy and Resolution
- ✓ Multiple Units Can Be Run On a Single PC
- ✓ 10 Readings Per Second
- ✓ Windows Software Included: TC-08 Recorder and TC-08 Player
- ✓ USB Interface



TC-08 Windows software displays data in graphical or tabular format

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
TC-08	\$410	8-channel thermocouple data acquisition module

Comes complete with Windows software, USB cable and operator's manual on CD.
Ordering Example: TC-08 8-channel thermocouple data acquisition module and OCV-1 OMEGACARESM 1 year warranty extends standard 2 year warranty to a total of 3 years, \$410 + 41 = \$451.

WIRELESS/DAS

To Order, Call **1-800-82-66342** or Shop Online at omega.com



instruNET® Series Direct Sensor to Data Acquisition

For Complete Details Visit omega.com/inet-100



iNET-100 Series Starts at **\$1180** Complete System

iNET-100 A/D box, \$990, shown smaller than actual size.



- ✓ High-Accuracy Data Acquisition for Windows Computers
- ✓ 16 Single-Ended/8 Differential 14-Bit Analog Inputs, 8 Analog Outputs, and 8 Digital I/O
- ✓ iNET-240 USB 2.0 Controller
- ✓ Direct Connection to RTD, Thermocouple, Voltage, Current, Accelerometer, Potentiometer, Load Cell, Thermistor, Bridge, and Strain Gage Sensors
- ✓ Each Channel Has Independently Programmable Analog and Digital Filters, Integration Time, Voltage Range, and Sample Rate
- ✓ 166 KS/s Throughput to RAM or Disk
- ✓ Includes Strip Chart Software and Drivers for C, Visual Basic.Net, and TestPoint
- ✓ Optional LabVIEW Drivers are Available
- ✓ Optional DASyLab Software Includes iNET Drivers for Easy-to-Use, Icon-Based Programming

8-Channel Thermocouple/Voltage Input USB Data Acquisition Modules

OM-USB-TC/
OM-USB-TC-AI/
OM-USB-5201
Starts at **\$329**

For Complete Details Visit omega.com/om-usb-tc



OM-USB-TC, \$329, shown smaller than actual size.



- ✓ OM-USB-TC and OM-USB-5201 Have 8 Thermocouple Inputs
- ✓ OM-USB-TC-AI Has 4 Thermocouple Inputs and 4 Analog Voltage Inputs
- ✓ OM-USB-5201 Has Data Logging Capability (Compact Flash)
- ✓ 24-Bit Resolution
- ✓ Software Programmable for Thermocouple Types J, K, T, E, R, S, B, N
- ✓ Built-In Cold junction Compensation and Open Thermocouple Detection
- ✓ Eight Digital I/O
- ✓ No External Power Supply Required (Except for OM-USB-5201)



8-Channel Temperature/Voltage Input USB Data Acquisition Modules

OM-USB-TEMP,
OM-USB-TEMP-AI and
OM-USB-5203
Starts at
\$499

For Complete
Details Visit
[omega.com/
om-usb-temp](http://omega.com/om-usb-temp)



OM-USB-TEMP, \$499,
shown smaller than
actual size.

- ✓ OM-USB-TEMP and OM-USB-5203 have 8 Temperature Inputs
- ✓ OM-USB-TEMP-AI has 4 Temperature Inputs and 4 Analog Voltage Inputs
- ✓ Temperature Inputs are Software Programmable for Thermocouple, RTD, Thermistor or Semiconductor Temperature Sensors

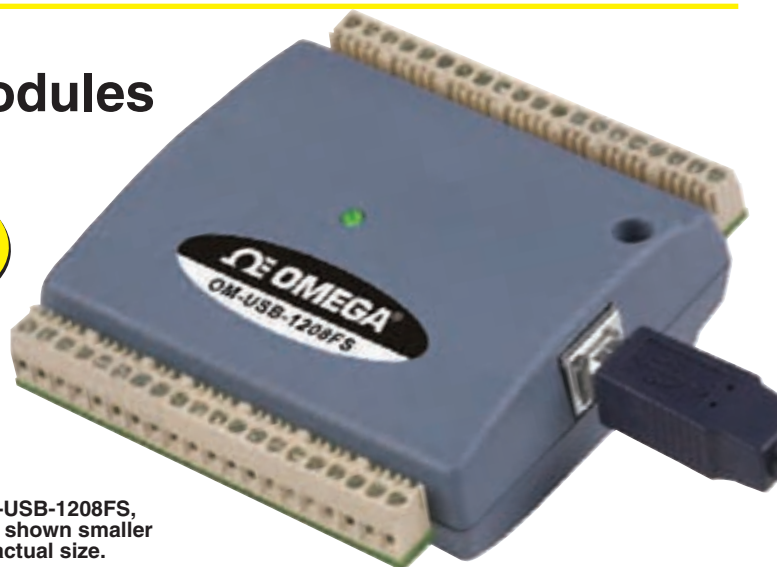
- ✓ OM-USB-5203 has Data Logging Capability (Compact Flash)
- ✓ 24-Bit Resolution
- ✓ Built-In Cold Junction Compensation and Open Circuit Detection for Thermocouple Inputs

- ✓ Eight Digital I/O
- ✓ No External Power Supply Required (Except for OM-USB-5203)

8-Channel Voltage Input USB Data Acquisition Modules

OM-USB-1208FS/
OM-USB-1408FS/
OM-USB-1608FS
Starts at
\$189

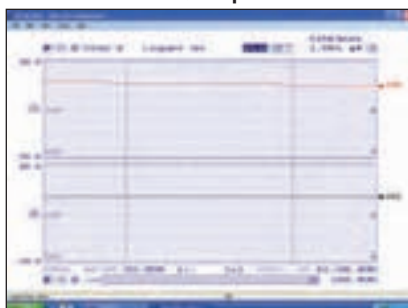
For Complete
Details Visit
[omega.com/
om-usb](http://omega.com/om-usb)



OM-USB-1208FS,
\$189, shown smaller
actual size.

- ✓ 8 Analog Voltage Inputs
- ✓ 12-Bit (OM-USB-1208FS), 14-Bit (OM-USB-1408FS) or 16-Bit (OM-USB-1608FS) Resolution
- ✓ Two 12-Bit Analog Outputs (OM-USB-1208FS, OM-USB-1408FS)
- ✓ 8 Digital I/O (USB-1608FS) or 16 Digital I/O (USB-1208FS, USB-1408FS)
- ✓ One 32-Bit Counter
- ✓ No External Power Supply Required

TracerDAQ Strip Chart.



TracerDAQ Pro Strip Chart with Measurements.



WIRELESS/DAS



8-Channel Temperature Data Loggers Part of the NOMAD® Family

For Complete
Details Visit
[omega.com/
om-cp-octtemp-a](http://omega.com/om-cp-octtemp-a)

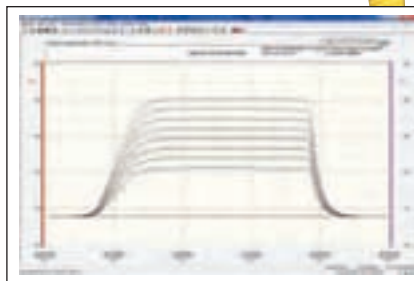
OM-CP-OCTTEMP-A
Starts at
\$999



Plug in up
to 8 probes

OM-CP-OCTTEMP-A data logger,
\$999, shown smaller than actual size.
KTSS-HH probe sold separately, \$29.

- ✓ Automatic Cold Junction Compensation
- ✓ Programmable Start Time
- ✓ 8 Thermocouple Channels and 1 Ambient
- ✓ User Calibration through Software
- ✓ Automatic Thermocouple Linearization
- ✓ External Power or User Replaceable Battery
- ✓ Real-Time Operation



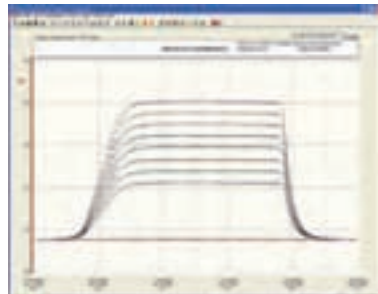
OM-CP-IFC110, \$99, Windows software displays data in graphical or tabular format.

Range Temperature Channel	
Minimum	64.4 Deg F
Maximum	602.4 Deg F
Ambient Mean	427.7 Deg F
Standard Deviation	136.2 Deg F
Mean Kinetic Temperature	501.5 Deg F
Ambient Temperature Channel	
Minimum	70.7 Deg F
Maximum	89.6 Deg F
Ambient Mean	80.6 Deg F
Standard Deviation	5.8 Deg F
Mean Kinetic Temperature	81.8 Deg F

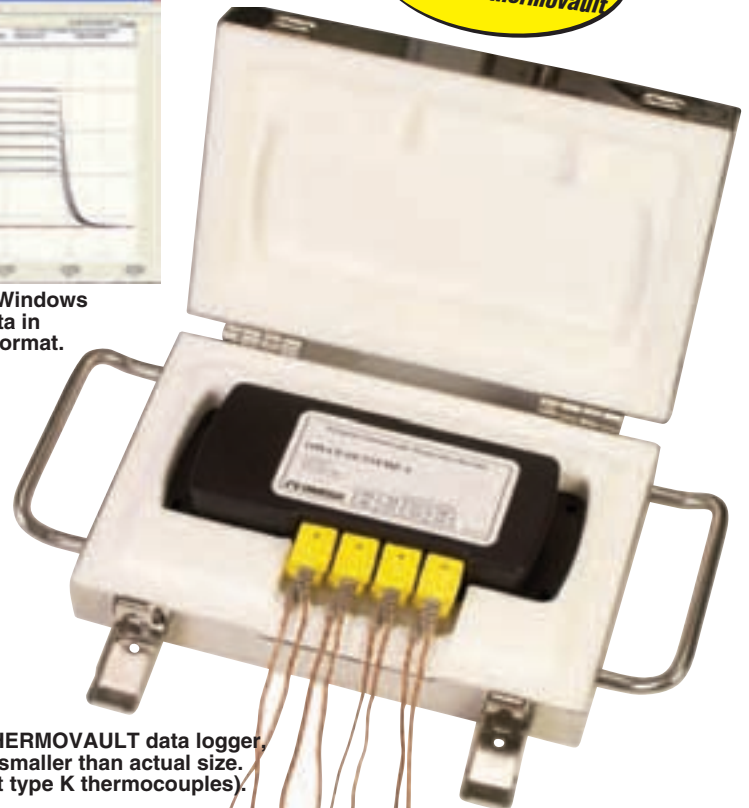
8-Channel Oven Data Logger Part of the NOMAD® Family

For Complete
Details Visit
[omega.com/
om-cp-octthermovault](http://omega.com/om-cp-octthermovault)

OM-CP-OCTTHERMOVAULT
\$1699

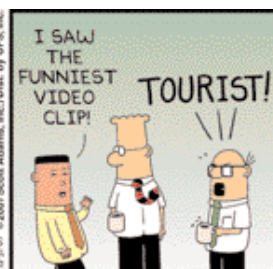
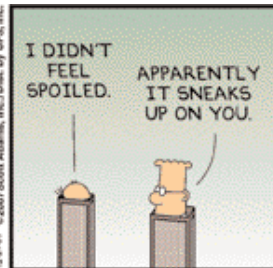
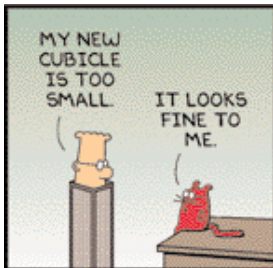
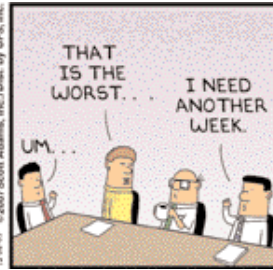


OM-CP-IFC110, \$99, Windows software displays data in graphical or tabular format.



- ✓ 8 Thermocouple Input Channels
- ✓ Programmable Start Time
- ✓ Reusable
- ✓ Automatic Cold junction Compensation
- ✓ Programmable Engineering Units
- ✓ Withstands Oven Temperature up to 350°C (662°F) for up to 25 Minutes

OM-CP-OCTTHERMOVAULT data logger,
\$1699, shown smaller than actual size.
(Includes eight type K thermocouples).



Dilbert © United Feature Syndicate

8-Channel Portable Handheld Data Logger

OM-DAQPRO-5300
\$995



Visit omega.com/om-daqpro-5300

Thermocouple Temperature Data Logger with LCD Display Part of the NOMAD® Family

OM-CP-TCTEMP2000
Starts at
\$499

Visit omega.com/om-cp-tctemp2000



MADE IN USA

OMEGAPHONE® Temperature Alarm Dialer Four-Zone Thermocouple Input with Optional Ethernet Data Collection

Visit omega.com/oma-vm520

OMA-VM520 Series
Starts
\$845

MADE IN USA

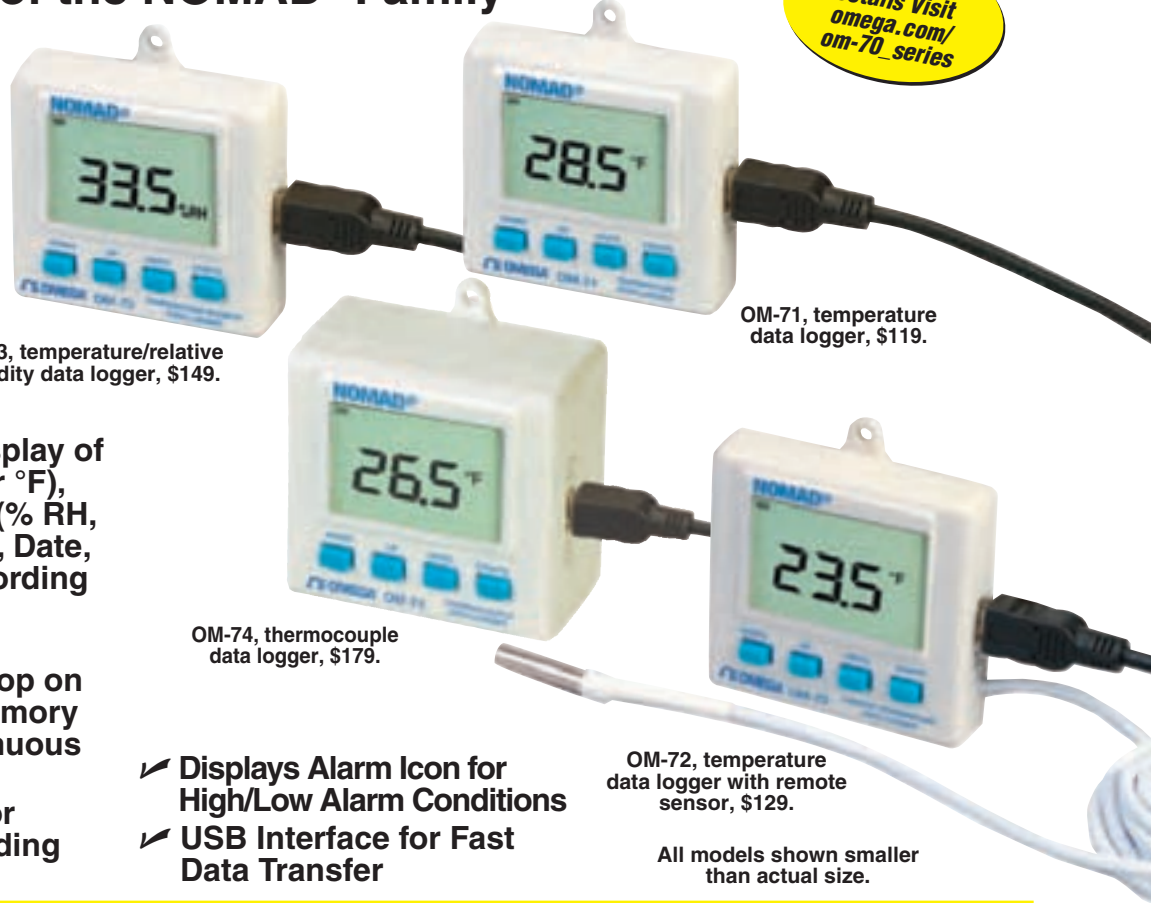




Portable Data Loggers with Display Part of the NOMAD® Family

For Complete
Details Visit
[omega.com/
om-70_series](http://omega.com/om-70_series)

OM-70 Series
Starts at
\$119



OM-73, temperature/relative humidity data logger, \$149.

OM-71, temperature data logger, \$119.

OM-74, thermocouple data logger, \$179.

OM-72, temperature data logger with remote sensor, \$129.

All models shown smaller than actual size.

- ✓ LCD Real Time Display of Temperature (°C or °F), Relative Humidity (% RH, OM-73 Only), Time, Date, Alarm Status, Recording Status and Battery Condition
- ✓ User Selectable Stop on Memory Full or Memory Rollover for Continuous Recording
- ✓ PC Delayed Start or Pushbutton Recording Control

- ✓ Displays Alarm Icon for High/Low Alarm Conditions
- ✓ USB Interface for Fast Data Transfer

Portable Data Logger

OM-SQ2010
Starts at
\$1540



For Complete
Details Visit
[omega.com/
om-sq2010](http://omega.com/om-sq2010)

- ✓ 4 to 8 Universal Analog Inputs (Current, Voltage, Resistance, Temperature) Plus 8 Digital Inputs
- ✓ 16 Derived/Calculated Channels
- ✓ 2 Alarm Outputs and 2 Pulse Counter Inputs (1 at 64 KHz, 1 at 100 Hz)
- ✓ 0.1% Accuracy
- ✓ Up to 1.8 Million Readings
- ✓ Large Easy-to-Read Graphical Display
- ✓ Includes Windows® Software for Data Logger Setup and Data Transfer to PC

OM-SQ2010 data logger, \$1540, shown smaller than actual size.

- ✓ USB Connectivity
- ✓ RS232 Output For Modem and Wireless Connection (Via Interface Modules)



OM-SQ-SOFT, Windows software (included with OM-SQ2010 data loggers) displays data in graphical or tabular format.

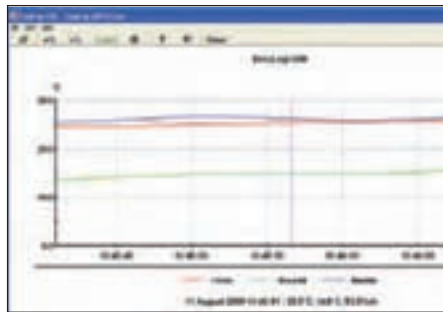
High Temperature Data Logger with USB Interface

OM-EL-USB-1-PRO

\$150



- ✓ -40 to 125°C (-40 to 257°F) Measurement Range
- ✓ 316 SS Case—NEMA 4X (IP67) Rated
- ✓ USB Interface for Easy Setup and Data Download
- ✓ Immediate or Delayed Start Logging
- ✓ Battery and Windows Control Software, Included



Windows Software shows data in graphical format

For Complete Details Visit omega.com/om-el-usb-1-pro



Windows Software setup screen



OM-EL-USB-1-PRO, \$150, shown larger than actual size

Thermocouple Data Logger with LCD Display and USB Interface

OM-EL-USB-TC-LCD

\$100



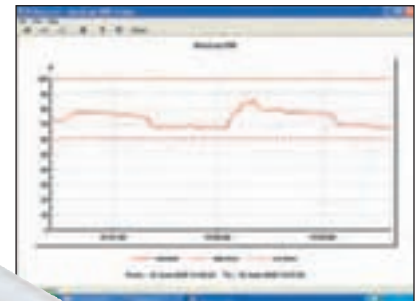
- ✓ Plug Directly Into USB Port for Easy Setup and Data Download—No USB Cable Required
- ✓ High Contrast LCD with 4-Digit Temperature Indication
- ✓ Accepts Type J, K or T Thermocouples
- ✓ 2 User-Programmable Alarm Thresholds

OM-EL-USB-TC-LCD, \$100, shown smaller than actual size.

- ✓ Status Indication Via Red and Green LEDs
- ✓ Immediate, Delayed and Push-to-Start Logging

For Complete Details Visit omega.com/om-el-usb-tc-lcd

Windows Software shows data in graphical format



FREE Thermocouple Included!

Includes a free 1 m (40") Type K insulated beaded wire thermocouple with subminiature connector and wire spool caddy. Order a Spare! Model No. SC-GG-K-30-36, \$15

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
OM-EL-USB-TC-LCD	\$100	Thermocouple data logger with LCD display and USB interface
OM-EL-BATT	4	Replacement 3.6V lithium battery

Comes complete with Windows software, operator's manual on CD-ROM, protective cap, 3.6V lithium battery and Type K thermocouple. **Ordering Example:** OM-EL-USB-TC-LCD, thermocouple data logger with LCD display and USB interface, OCW-3, OMEGACARE 3-year extended warranty adds 3-years to standard 1-year warranty, and OM-EL-BATT replacement battery, \$100 + 25 + 4 = \$129.

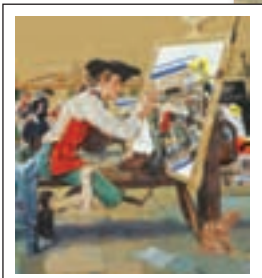
WIRELESS/DAS

PRESSURE AND STRAIN MEASUREMENT

A SELECTION OF OUR MOST POPULAR PRODUCTS



For Our Complete Selection Visit omega.com/pressure



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Micro-Machined Silicon With High Temp. Performance For Industry, Automotive, Test, And Aerospace Applications



Gage and Absolute Pressure
4 to 20 mA Outputs
Low Pressure: 10 inH₂O and
5 to 5000 psi-Standard Models
25 mbar to 345 bar-Metric Models

PX409 Series
Starts at
\$545



**0.08%
Accuracy**

- ✓ High Accuracy $\pm 0.08\%$ BSL
Includes Linearity, Hysteresis,
and Repeatability
- ✓ Broad Temperature Compensated
Range -29 to 85°C (-20 to 185°F)
- ✓ Premium Temperature Performance
Span: $\pm 0.5\%$ over Compensated Range
- ✓ 5-Point NIST Traceable Calibration
Included
- ✓ Low Pressure Ranges from 10 inH₂O
- ✓ All Stainless Steel Wetted Parts
- ✓ Fast Response Time
- ✓ Solid State Reliability and Stability
- ✓ Gage and Absolute Pressures
- ✓ 300% Proof Pressure Minimum

OMEGA® piezoresistive pressure transducers have a proven record in high performance commercial and aerospace applications for over 25 years. The piezoresistive process uses strain gages molecularly embedded into a highly stable silicon wafer. The silicon wafer is diced into individual die which each contain a full strain gage bridge. The die is mounted in a sealed chamber protected from the environment by glass to metal seals and a stainless steel diaphragm.

A small volume of silicone oil transfers the pressure from the diaphragm to the strain bridge. The construction provides a very rugged transducer with exceptional accuracy, stability and thermal effects. A unique design ruggedizes the transducers by providing secondary fluid containment in the event of a diaphragm rupture.

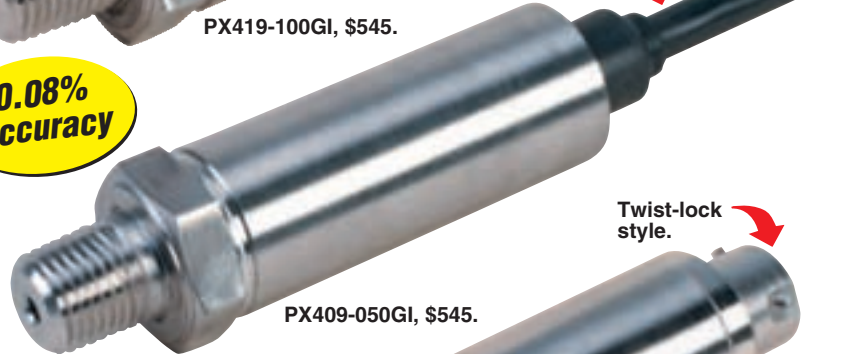
At our state-of-the-art facilities, automated test equipment performs pressure and temperature cycling on 100% of the PX409 transducers. The transducers are then calibrated using extremely high accuracy equipment and a 5-point NIST traceable calibration

All models
shown actual size.



PX419-100GI, \$545.

Cable style.



PX409-050GI, \$545.

Twist-lock
style.

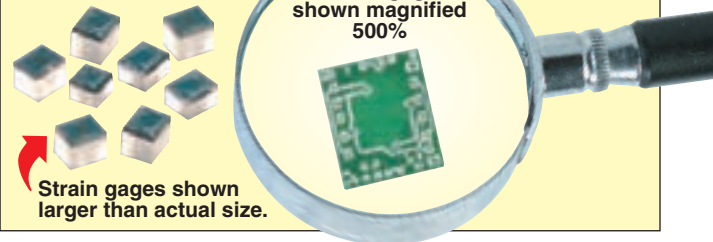


PX429-015GI, \$545.

For Complete
Details Visit
[omega.com/
px409_series](http://omega.com/px409_series)

PX409 Series Silicon Wafer Technology

PX409 Series uses a highly stable silicon wafer which is micro-machined to precision tolerances and then has strain gages molecularly embedded into it.



Strain gages shown
larger than actual size.

Strain gage
shown magnified
500%

certificate is included with each transducer. The inherent stability of the piezoresistive core provides excellent long term stability, repeatability and very low thermal effects at the price of much lower performance transducers. Standard features of the PX409 Series also include protective features built into the electronics and the pressure element. Reverse polarity, EMC, and power supply fluctuation protection are standard on all models. Intrinsically Safe and CSA ratings are optional.

The most popular ranges and configurations are stocked for immediate delivery. All others typically have very short lead-time.

PRESSURE



High Accuracy Pressure Transducers

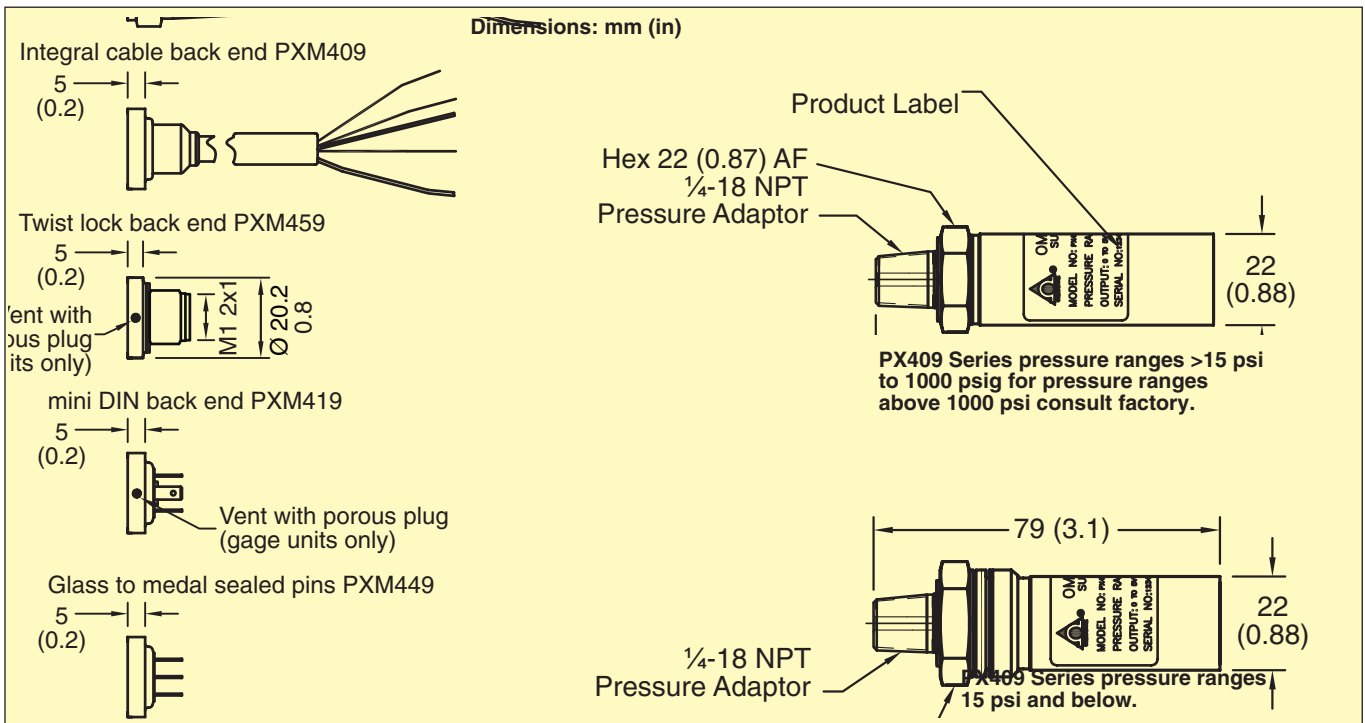
Piezoresistive Design with High Temperature Performance



PX409 Cable Connection			
Color	mV	5/10V	mA
Black	- EXC	Common	- Supply
White	+ SIG	+ Output	NC
Green	- SIG	NC	NC
Red	+ EXC	+ EXC	+ Supply

PX419/PX449 Pinout			
Pin	mV	5/10V	mA
1	+ EXC	+ EXC	+ Supply
2	- EXC	Common	- Supply
3	+ SIG	+ Output	NC
4	- SIG	NC	NC

PX429 Twist-Lock Pinout			
Pin	mV	5/10V	mA
A	+ EXC	+ EXC	+ Supply
B	- EXC	Common	- Supply
C	+ SIG	+ Output	NC
D	- SIG	NC	NC
E	NC	NC	NC
F	NC	NC	NC



Common Specifications Gage and Absolute Pressure

Approvals: RoHS compliant
Minimum Isolation Between Case and Output Terminations: 100M Ω @ 50 Vdc
Pressure Cycles: 1 million, minimum
Long Term Stability (1-Year): ±0.1% FS typical
Shock: 50g, 11 mS half sine shock (under test)
Vibration: ±20g (under test)
Bandwidth: DC to 1 kHz typical
Response Time: <1 mS
CE Compliant
Emissions: EN550022 Class B
Electrostatic Discharge Immunity: EN61000-4-2
EM Field Immunity: EN61000-4-3

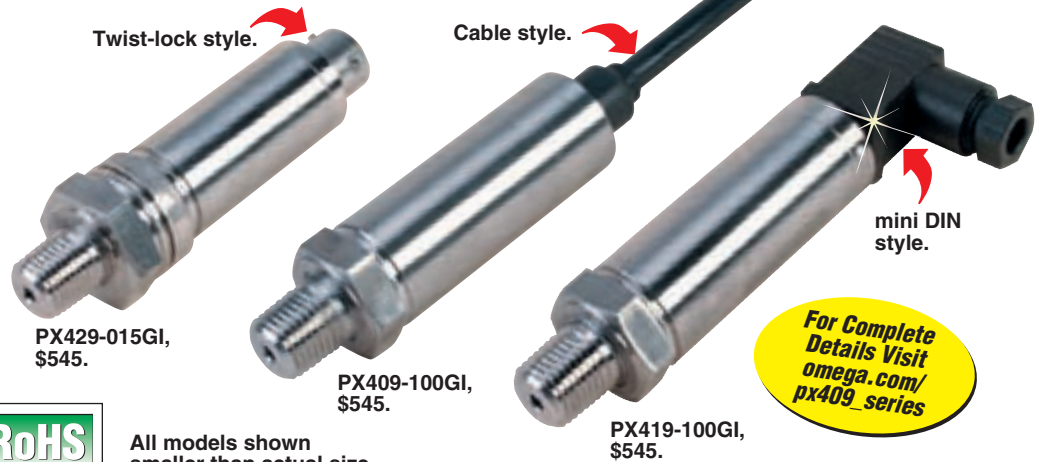
EFT Immunity: EN61000-4-4
Surge Immunity: EN61000-4-5
Conducted RF: EN610000-4-6
Electrical Termination:
 PX409: Integral 2 m (6') cable
 PX409C: Integral 2 m (6') cable with 1/2 NPT conduit fitting
 PX419: mini DIN
 PX429: Twist lock
Environmental Protection:
 PX409: IP67
 PX409C: IP67
 PX419: IP65
 PX429: IP65
Overpressure Gage Pressure:
 10-in H₂O: 10 times span
 1 psi: 6 times span
 2.5 psi to 3500 psi: 4 times span
 5000 psi: 15,000 psi max

Overpressure Absolute Pressure:
 5 psia: 6 times span
 2.5 psia to 3500 psia: 4 times span
 5000 psia: 15000 psi max
Secondary Containment Gage/Diff/Vac/Compound:
 10 in-H₂O to 5 psi: To 1000 psi
 15 to 1000 psi: To 3000 psi
 1500 to 5000 psi: To 15,000 psi
Absolute/Barometric:
 5 to 1000 psi: To 6000 psia
 1500 to 5000 psi: To 15,000 psia
Wetted Parts: 316 SS
Pressure Port: 1/4-18 NPT male
Weight: 115 to 200 gm (4 to 7 oz) depending upon configuration

Gage and Absolute Pressure High Performance Pressure Transmitters Micro-Machined Silicon



4 to 20 mA Output
0-10 inH₂O to 0-5000 psi
25 mb to 0-345 bar



PX409 Series Starts at
\$545

For Complete Details Visit
omega.com/px409_series



Standard

All models shown smaller than actual size.

MOST POPULAR MODELS HIGHLIGHTED!

4 to 20 mA Specifications

Output: 4 to 20 mA

Supply Voltage: 9 to 30 Vdc

max loop res $\Omega = (Vs-9) \times 50$

[9 to 20 Vdc above 105°C (229°F)]

Accuracy (Combined Linearity, Hysteresis and Repeatability):

±0.08% BSL max

Zero Balance: ±0.5% FS typical 1% max (1% typical, 2% max for 1 psi and below)

Span Setting: ±0.5% FS typical 1% max (1% typical, 2% max for 1 psi and below). Calibrated in vertical direction with fitting down

Operating Temperature Range:

-45 to 115°C (-49 to 240°F)

Compensated Temperature:

Ranges >5 psi: -29 to 85°C (-20 to 185°F)

Ranges ≤5 psi: -17 to 85°C (0 to 185°F)

Thermal Effects Zero

(Over Compensated Range):

Ranges >5 psi: ±0.5% span

Ranges ≤5 psi: ±1.0% span

Thermal Effects Span

(Over Compensated Range):

Ranges >5 psi: ±0.5% span

Ranges ≤5 psi: ±1.0% span

To Order (Specify Model Number)							
Range		2 m (6') Cable	Price	mini DIN	Price	Twist-Lock	Price
psi	bar	Termination		Termination		Termination	
4 to 20 mA Output, Gage Pressure Ranges							
10 in-H ₂ O	25 mb	PX409-10WGI	\$595	PX419-10WGI	\$595	PX429-10WGI	\$595
1	69 mb	PX409-001GI	595	PX419-001GI	595	PX429-001GI	595
2.5	172 mb	PX409-2.5GI	595	PX419-2.5GI	595	PX429-2.5GI	595
5	345 mb	PX409-005GI	545	PX419-005GI	545	PX429-005GI	545
15	1.0	PX409-015GI	545	PX419-015GI	545	PX429-015GI	545
30	2.1	PX409-030GI	545	PX419-030GI	545	PX429-030GI	545
50	3.4	PX409-050GI	545	PX419-050GI	545	PX429-050GI	545
100	6.9	PX409-100GI	545	PX419-100GI	545	PX429-100GI	545
150	10.3	PX409-150GI	545	PX419-150GI	545	PX429-150GI	545
250	17.2	PX409-250GI	545	PX419-250GI	545	PX429-250GI	545
500	34.5	PX409-500GI	545	PX419-500GI	545	PX429-500GI	545
750	51.7	PX409-750GI	545	PX419-750GI	545	PX429-750GI	545
1000	69	PX409-1.0KGI	545	PX419-1.0KGI	545	PX429-1.0KGI	545
1500	103	PX409-1.5KGI	545	PX419-1.5KGI	545	PX429-1.5KGI	545
2500	172	PX409-2.5KGI	545	PX419-2.5KGI	545	PX429-2.5KGI	545
3500	241	PX409-3.5KGI	545	PX419-3.5KGI	545	PX429-3.5KGI	545
5000	345	PX409-5.0KGI	545	PX419-5.0KGI	545	PX429-5.0KGI	545
4 to 20 mA Absolute Pressure Ranges							
5	345 mb	PX409-005AI	\$545	PX419-005AI	\$545	PX429-005AI	\$545
15	1.0	PX409-015AI	545	PX419-015AI	545	PX429-015AI	545
30	2.1	PX409-030AI	545	PX419-030AI	545	PX429-030AI	545
50	3.4	PX409-050AI	545	PX419-050AI	545	PX429-050AI	545
100	6.9	PX409-100AI	545	PX419-100AI	545	PX429-100AI	545
150	10.3	PX409-150AI	545	PX419-150AI	545	PX429-150AI	545
250	17.2	PX409-250AI	545	PX419-250AI	545	PX429-250AI	545
500	34.5	PX409-500AI	545	PX419-500AI	545	PX429-500AI	545
750	51.7	PX409-750AI	545	PX419-750AI	545	PX429-750AI	545
1000	69	PX409-1.0KAI	545	PX419-1.0KAI	545	PX429-1.0KAI	545

Comes complete with 5-point NIST traceable calibration certificate.

Ordering Examples: PX409-1.0KGI, 4 to 20 mA output, 1000 psi gage pressure range, 2 m (6') cable termination, \$545.

PX429-015AI, 4 to 20 mA output, 15 psi absolute pressure, twist lock termination, PT06F10-6S, mating twist lock connector (sold separately), and DP25B-E, 4-digit meter, \$545 + 26.50 + 245 = \$816.50 system with meter. Visit omega.com/dp25b for meter.



Hermetically Sealed Gage Ranges

Designed for the Harshest Environments

4 to 20 mA Output
 0-100 to 0-5000 psi Sealed Gage
 6.9 to 0-345 bar

For Complete Details Visit
omega.com/px429-sgi

PX429 Series
\$545
 All Models



The hermetically sealed gage version of the PX409 Series features all welded Stainless Steel construction, 316L wetted parts and glass to metal seals (GMS) at the electrical outlets with either twist lock connector (PX429) or solder pins (PX449) terminations. This ensures that the unit is hermetically sealed from external environments and the media. Designed for use on automotive and aircraft test platforms and anywhere environmental concerns demand the most durable characteristics. The sealed gage models have the PX409 Series micro machined silicon core that provides high accuracy, low drift and excellent long term stability in the harshest environments.

4 to 20 mA Specifications

Output: 4 to 20 mA
Supply Voltage: 9 to 30 Vdc
 max loop res $\Omega = (Vs-9) \times 50$
 [9 to 20 Vdc above 105°C (229°F)]
Accuracy (Combined Linearity, Hysteresis and Repeatability):
 $\pm 0.08\%$ BSL max
Zero Balance: $\pm 0.5\%$ FS typical 1% max (1% typical, 2% max for 1 psi and below)
Span Setting: $\pm 0.5\%$ FS typical 1% max (1% typical, 2% max for 1 psi and below).
 Calibrated in vertical direction with fitting down
Operating Temperature Range:
 -45 to 115°C (-49 to 240°F)
Compensated Temperature:
Ranges >5 psi: -29 to 85°C (-20 to 185°F)
Ranges ≤ 5 psi: -17 to 85°C (0 to 185°F)

Glass-to-metal seal solder pins.



Sealed twist-lock style.

PX449-250SGI, \$545, shown actual size.

PX429-3.5KSGI, \$545, shown actual size.

Thermal Effects Zero (Over Compensated Range):
Ranges >5 psi: $\pm 0.5\%$ span
Ranges ≤ 5 psi: $\pm 1.0\%$ span
Thermal Effects Span (Over Compensated Range):
Ranges >5 psi: $\pm 0.5\%$ span
Ranges ≤ 5 psi: $\pm 1.0\%$ span

Metric thread adaptors available, visit omega.com/mta_brk

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)					
Range		Twist-Lock Termination	Price	Glass to Metal Seal Pins	Price
psi	bar				
4 to 20 mA Output, Sealed Gage Pressure Ranges					
100	6.9	PX429-100SGI	\$545	PX449-100SGI	\$545
150	10.3	PX429-150SGI	545	PX449-150SGI	545
250	17.2	PX429-250SGI	545	PX449-250SGI	545
500	34.5	PX429-500SGI	545	PX449-500SGI	545
750	51.7	PX429-750SGI	545	PX449-750SGI	545
1000	69	PX429-1.0KSGI	545	PX449-1.0KSGI	545
1500	103	PX429-1.5KSGI	545	PX449-1.5KSGI	545
2500	172	PX429-2.5KSGI	545	PX449-2.5KSGI	545
3500	241	PX429-3.5KSGI	545	PX449-3.5KSGI	545
5000	345	PX429-5.0KSGI	545	PX449-5.0KSGI	545

Accessory

MODEL NO.	PRICE	DESCRIPTION
PT06F10-6S	\$26.50	Mating connector for PX429 (sold separately)

Comes complete with 5-point NIST traceable calibration.
Ordering Examples: PX449-250SGI, 4 to 20 mA output, 250 psi sealed gage pressure range, glass to metal sealed pin termination, \$545.
 PX429-1.0KSGI, 4 to 20 mA output, 1000 psi sealed gage pressure range, hermetically sealed twist-lock termination, PT06F10-6S, mating twist-lock connector (sold separately) and DP25B-S, 4-digit meter, \$545 + 26.50 + 245 = \$816.50. Visit omega.com/dp25b for meter.

To Order, Call **1-800-82-66342** or Shop Online at omega.com

Barometric Transducers



PX409
Starts at
\$625



- ✓ Precision Barometric Ranges
- ✓ inHg or hPa (mbar) Units
- ✓ 5-Point Calibration (Included)

OMEGA's PX409 series electronic barometers are high-accuracy barometers available in three ranges: 16 to 32 inHg, 26 to 32 inHg, or 0 to 32 inHg (absolute pressure) for laboratory or industrial test applications. Models with integral cables (PX409) are IP67 while connector styles (PX419 and PX429) are IP65 rated. They feature all stainless steel construction, which makes them ideal for harsh industrial environments. Their high operating temperature, broad compensated range, and excellent

temperature compensation allow stable readings in applications with fluctuating temperatures commonly found where barometric pressure must be monitored. Models are available with millivolt, voltage or current outputs.

Specifications

Output:

- Millivolt:** 10 mV/V (100 mV @ 10 Vdc)
- Amplified Voltage:** 0 to 5 Vdc
- Current Loop:** 4 to 20 mA

Power Requirements:

- Millivolt:** 5 to 10 Vdc (5 mA @ 10 Vdc)
- Amplified Voltage:** 10 to 30 Vdc @ 10 mA
- Current Loop:** 9 to 30 Vdc [max loop res = (Vs-9) x 50]; [9 to 20 Vdc above 105°C (229°F)]

Accuracy (Combined Linearity, Hysteresis and Repeatability):

±0.08% BSL

PX419-26BV, \$625, shown actual size.



Custom Models Available!
Visit omega.com/pxconfig for Details

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Range		2 m (6') Cable Termination Model No.	Price	mini DIN Termination Model No.	Price	Twist-Lock Termination Model No.	Price
inHg	mbar*						
10 mV/V Output							
0 to 32	0 to 1084	PX409-32BV	\$625	PX419-32BV	\$625	PX429-32BV	\$625
16 to 32	542 to 1084	PX409-16BV	625	PX419-16BV	625	PX429-16BV	625
26 to 32	880 to 1084	PX409-26BV	625	PX419-26BV	625	PX429-26BV	625
0 to 5 Vdc Output**							
0 to 32	0 to 1084	PX409-32B5V	\$690	PX419-32B5V	\$690	PX429-32B5V	\$690
16 to 32	542 to 1084	PX409-16B5V	690	PX419-16B5V	690	PX429-16B5V	690
26 to 32	880 to 1084	PX409-26B5V	690	PX419-26B5V	690	PX429-26B5V	690
4 to 20 mA Output							
0 to 32	0 to 1084	PX409-32BI	\$690	PX419-32BI	\$690	PX429-32BI	\$690
16 to 32	542 to 1084	PX409-16BI	690	PX419-16BI	690	PX429-16BI	690
26 to 32	880 to 1084	PX409-26BI	690	PX419-26BI	690	PX429-26BI	690

Accessories

Model No.	Price	Description
PT06F10-6S	\$26.50	Mating connector for PX429 series, sold separately
CX5302	15.00	Spare mating connector for PX419 series; one included with each unit
PS-4G	12.75	Pressure snubber for gases
PS-4E	12.75	Pressure snubber for water and light oils
PS-4D	12.75	Pressure snubber for viscous liquids

Comes complete with 5-point calibration certificate.

* For custom calibration in hPa, 0 to 1100, 550 to 1100 or 800 to 1100, add letter "H" after the range, no additional charge.

Example: PX409-26HBI, 800 to 1100 hPa, \$690.

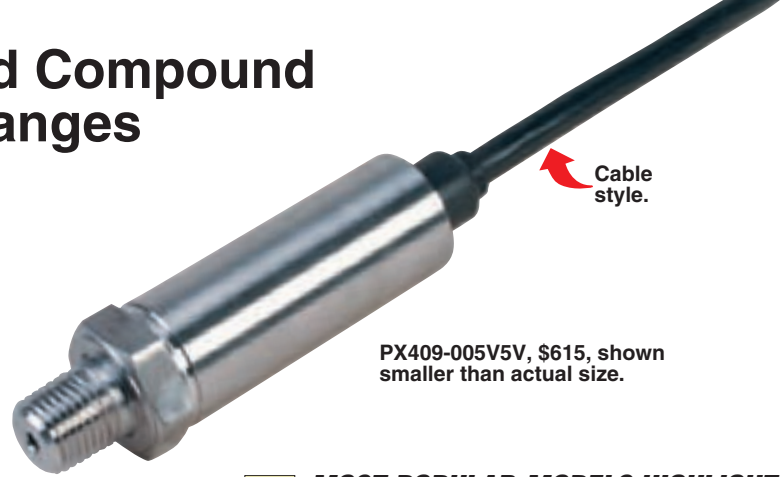
** To order with 0 to 10 Vdc output, change "5V" to "10V", no additional charge.

Ordering Examples: PX409-16BV, 10 mV/V output, 16 to 32 inHg absolute pressure range, 2 m (6') cable termination, \$625.

PX429-26BV, 10 mV/V output, 26 to 32 inHg absolute pressure, twist-lock termination, PT06F10-6S, mating twist lock connector (sold separately), \$625 + 26.50 = \$651.50.



Vacuum and Compound Pressure Ranges



Custom Models Available!

✔ Use Our Convenient On-Line Transducer Configurator to Choose the Features You Want Visit omega.com/pxconfig for Details

PX409-005V5V, \$615, shown smaller than actual size.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)							
Vacuum Ranges (Below Ambient)							
Range		2 m (6') Cable Termination	Price	mini DIN Termination	Price	Twist-Lock Termination	Price
psi	mbar						
10 mV/V Output							
0 to -10 inH ₂ O	0 to -25	PX409-10WV	\$600	PX419-10WV	\$600	PX429-10WV	\$600
0 to -1	0 to -69	PX409-001V	600	PX419-001V	600	PX429-001V	600
0 to -2.5	0 to -172	PX409-2.5V	600	PX419-2.5V	600	PX429-2.5V	600
0 to -5	0 to -172	PX409-005V	550	PX419-005V	550	PX429-005V	550
0 to -15	0 to -1034	PX409-015V	550	PX419-015V	550	PX429-015V	550
0 to 5 Vdc Output							
0 to -10 inH ₂ O	0 to -25	PX409-10WV5V	\$665	PX419-10WV5V	\$665	PX429-10WV5V	\$665
0 to -1	0 to -69	PX409-001V5V	665	PX419-001V5V	665	PX429-001V5V	665
0 to -2.5	0 to -172	PX409-2.5V5V	665	PX419-2.5V5V	665	PX429-2.5V5V	665
0 to -5	0 to -345	PX409-005V5V	615	PX419-005V5V	615	PX429-005V5V	615
0 to -15	0 to -1034	PX409-015V5V	615	PX419-015V5V	615	PX429-015V5V	615
4 to 20 mA Output							
0 to -10 inH ₂ O	0 to -25	PX409-10WVI	\$665	PX419-10WVI	\$665	PX429-10WVI	\$665
0 to -1	0 to -69	PX409-001VI	665	PX419-001VI	665	PX429-001VI	665
0 to -2.5	0 to -172	PX409-2.5VI	665	PX419-2.5VI	665	PX429-2.5VI	665
0 to -5	0 to -172	PX409-005VI	615	PX419-005VI	615	PX429-005VI	615
0 to -15	0 to -1034	PX409-015VI	615	PX419-015VI	615	PX429-015VI	615
Compound Ranges (Bi-Directional Outputs)							
±10 mV/V Output							
±10 inH ₂ O	±25	PX409-10WCGV	\$665	PX419-10WCGV	\$665	PX429-10WCGV	\$665
±1	±69	PX409-001CGV	665	PX419-001CGV	665	PX429-001CGV	665
±2.5	±172	PX409-2.5CGV	665	PX419-2.5CGV	665	PX429-2.5CGV	665
±5	±345	PX409-005CGV	665	PX419-005CGV	665	PX429-005CGV	665
±15	±1034	PX409-015CGV	615	PX419-015CGV	615	PX429-015CGV	615
±5 Vdc Output							
±10 inH ₂ O	±25	PX409-10WCG5V	\$665	PX419-10WCG5V	\$665	PX429-10WCG5V	\$665
±1	±69	PX409-001CG5V	665	PX419-001CG5V	665	PX429-001CG5V	665
±2.5	±172	PX409-2.5CG5V	665	PX419-2.5CG5V	665	PX429-2.5CG5V	665
±5	±345	PX409-005CG5V	665	PX419-005CG5V	665	PX429-005CG5V	665
±15	±1034	PX409-015CG5V	615	PX419-015CG5V	615	PX429-015CG5V	615
4 to 20 mA Output (0 psig = 12 mA)							
±10 inH ₂ O	±25	PX409-10WCGI	\$665	PX419-10WCGI	\$665	PX429-10WCGI	\$665
±1	±69	PX409-001CGI	665	PX419-001CGI	665	PX429-001CGI	665
±2.5	±172	PX409-2.5CGI	665	PX419-2.5CGI	665	PX429-2.5CGI	665
±5	±345	PX409-005CGI	665	PX419-005CGI	665	PX429-005CGI	665
±15	±1034	PX409-015CGI	615	PX419-015CGI	615	PX429-015CGI	615

Comes complete with NIST-traceable 5 point calibration certificate (positive readings only for compound ranges).

Note: To order with 10V output, change "5V" to "10V" in model number, no additional charge.

Ordering Examples: PX409-001V, 10 mV/V output, 0 to -1 psi vacuum pressure range, 2 m (6') cable termination, \$600.

PX409-001CG5V, ±5V output, ±1 psi gage pressure range, 2 m (6') cable termination, \$665.

Wet/Wet Differential Pressure Models Uni-Directional Ranges with 0 to 5 Vdc Outputs



Specifications

Output Voltage/Supply Voltage: 0 to 5 Vdc/
10 to 30 Vdc; 0 to 10 Vdc/15 to 30 Vdc
(change "5V" to "10V" in model number)

Current Draw: 10 mA max

Maximum Current Output: 2 mA (= 2500 Ω min
load resistance)

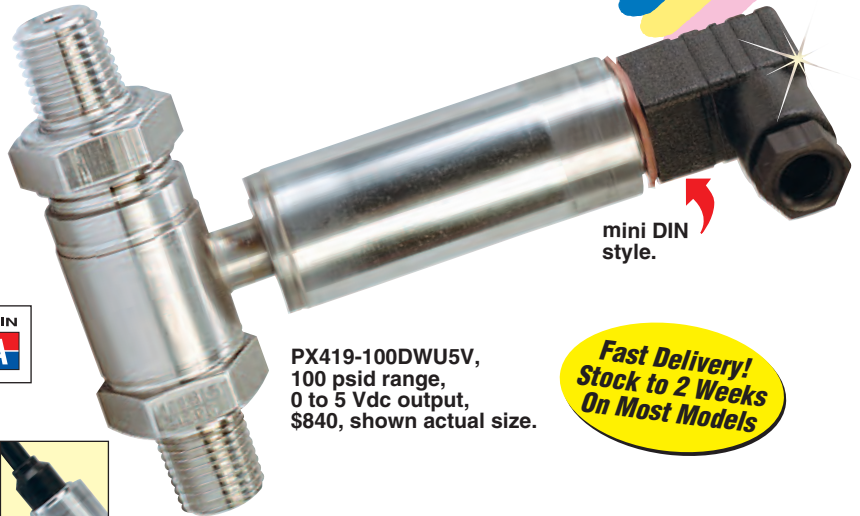
Output Impedance: 100 Ω

Zero Balance:

Ranges > 1psi: ±0.5% typ (1% max)
Ranges ≤ 1psi: ±1% typ (2% max)

Span Setting:

Ranges > 1psi: ±0.5% typ (1% max)
Ranges ≤ 1psi: ±1% typ (2% max)



PX419-100DWU5V,
100 psid range,
0 to 5 Vdc output,
\$840, shown actual size.

Fast Delivery!
Stock to 2 Weeks
On Most Models

Cable Termination*



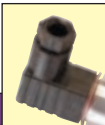
To Order (Specify Model Number)

0 to 5 Vdc Output, ¼ NPT Male Connectors

Range	Metric	Model No.	Price
0 to 10 inH ₂ O	25 mbar	PX409-10WDWU5V	\$890
0 to 1 psi	70 mbar	PX409-001DWU5V	890
0 to 2.5 psi	170 mbar	PX409-2.5DWU5V	890
0 to 5 psi	350 mbar	PX409-005DWU5V	840
0 to 15 psi	1 bar	PX409-015DWU5V	840
0 to 30 psi	2 bar	PX409-030DWU5V	840
0 to 50 psi	3.5 bar	PX409-050DWU5V	840
0 to 100 psi	7 bar	PX409-100DWU5V	840
0 to 150 psi	10 bar	PX409-150DWU5V	840
0 to 250 psi	17.5 bar	PX409-250DWU5V	840
0 to 500 psi	35 bar	PX409-500DWU5V	840
0 to 750 psi	50 bar	PX409-750DWU5V	840
0 to 1000 psi	70 bar	PX409-1.0KDWU5V	840

* To order conduit fitting backend change model number from "PX409" to "PX409C", no additional charge.

mini DIN Termination



0 to 5 Vdc Output, ¼ NPT Male Connectors

Range	Metric	Model No.	Price
0 to 10 inH ₂ O	25 mbar	PX419-10WDWU5V	\$890
0 to 1 psi	70 mbar	PX419-001DWU5V	890
0 to 2.5 psi	170 mbar	PX419-2.5DWU5V	890
0 to 5 psi	350 mbar	PX419-005DWU5V	840
0 to 15 psi	1 bar	PX419-015DWU5V	840
0 to 30 psi	2 bar	PX419-030DWU5V	840
0 to 50 psi	3.5 bar	PX419-050DWU5V	840
0 to 100 psi	7 bar	PX419-100DWU5V	840
0 to 150 psi	10 bar	PX419-150DWU5V	840
0 to 250 psi	17.5 bar	PX419-250DWU5V	840
0 to 500 psi	35 bar	PX419-500DWU5V	840
0 to 750 psi	50 bar	PX419-750DWU5V	840
0 to 1000 psi	70 bar	PX419-1.0KDWU5V	840

Twist-Lock Termination**

MOST POPULAR
MODELS HIGHLIGHTED!



0 to 5 Vdc Output, ¼ NPT Male Connectors

Range	Metric	Model No.	Price
0 to 10 inH ₂ O	25 mbar	PX429-10WDWU5V	\$890
0 to 1 psi	70 mbar	PX429-001DWU5V	890
0 to 2.5 psi	170 mbar	PX429-2.5DWU5V	890
0 to 5 psi	350 mbar	PX429-005DWU5V	840
0 to 15 psi	1 bar	PX429-015DWU5V	840
0 to 30 psi	2 bar	PX429-030DWU5V	840
0 to 50 psi	3.5 bar	PX429-050DWU5V	840
0 to 100 psi	7 bar	PX429-100DWU5V	840
0 to 150 psi	10 bar	PX429-150DWU5V	840
0 to 250 psi	17.5 bar	PX429-250DWU5V	840
0 to 500 psi	35 bar	PX429-500DWU5V	840
0 to 750 psi	50 bar	PX429-750DWU5V	840
0 to 1000 psi	70 bar	PX429-1.0KDWU5V	840

** Mating connector sold separately, order PT06F10-6S, \$26.50 each.

Comes complete with 5-point NIST traceable calibration certificate.

Note: To order 0 to 10 Vdc output, change "5V" to "10V" in model number, no additional charge.

Ordering Examples: PX409-100DWU5V, 0 to 100 psi uni-directional wet/wet differential pressure range, 0 to 5 Vdc output, 0.08% accuracy, ¼ NPT termination, 2 m (6") cable, \$840.

PX419-015DWU5V, 0 to 15 psi uni-directional wet/wet differential pressure range, 0 to 5 Vdc output, 0.08% accuracy, ¼ NPT termination, mini DIN connector, \$840.

PX429-10WDWU5V, 0 to 10 inH₂O uni-directional wet/wet differential pressure range, 0 to 5 Vdc output, 0.08% accuracy, ¼ NPT termination, twist-lock connector plus PT06F10-6S, mating connector, \$890 + 26.50 = \$916.50.

Connections—Voltage Output

PX429 Twist-Lock		PX419 mini DIN		PX409 Cable	
Pin A	+EXC	Pin 1	+EXC	Red	+EXC
Pin B	-COM	Pin 2	-COM	Black	-EXC
Pin C	+SIG	Pin 3	+SIG	White	+SIG
Pin D	No Conn	Pin 4	No Conn	Green	No Conn
Pin E	No Connection				
Pin F	No Connection				



USB Output Pressure Transducer

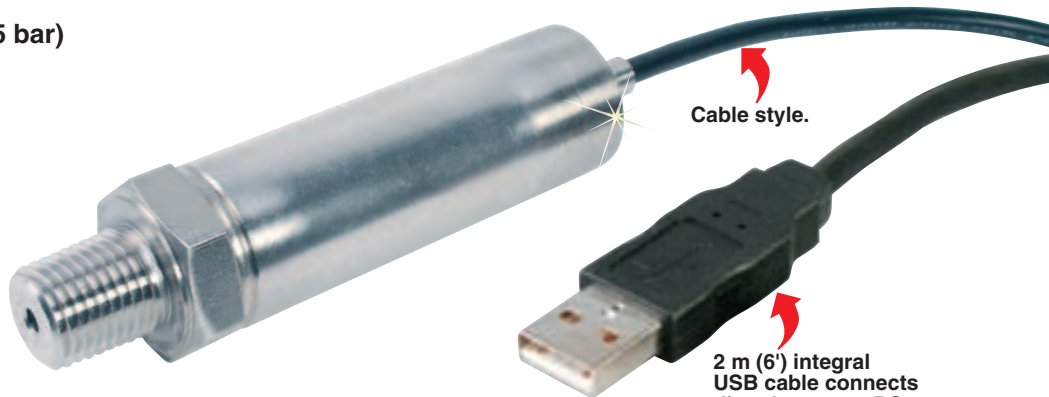
Connect Directly to Your Computer

Gage and Absolute Pressures
10 inH₂O to 5000 psi (25 mb to 345 bar)
Vacuum and Compound Ranges
10 inH₂O to 15 psi

PX409 USB Series
Starts at
\$545



Standard



PX409-015VUSB, \$550, shown actual size.

Cable style.

2 m (6') integral USB cable connects directly to your PC.

- ✓ Micro-Machined Silicon Sensor
- ✓ 316L SS Wetted Parts
- ✓ High $\pm 0.08\%$ Accuracy Typ.
- ✓ Fast Delivery! Stock to 1-Week on Most Models
- ✓ Excellent Long Term Stability
- ✓ USB 2.0 and Below Compatible
- ✓ Standard USB Connector Termination
- ✓ Shock and Vibration Rated
- ✓ Ruggedized with Secondary Containment

Metric thread adaptors available, visit omega.com/mta_brk

The PX409 USB Series connects directly to your computer. Free software makes data logging and charting your readings a simple task. Also included are drivers for popular laboratory programs plus some web applications. The micro-machined silicon design are ideal for pressure or level applications in laboratory, test platforms, or bio/pharmaceutical applications as well as industrial applications that require a rugged, high accuracy transducer. The micro-machined silicon sensor provides a very stable transducer with exceptional high accuracy of $\pm 0.08\%$ Typ. and a broad compensated range of -29 to 85°C (-20 to 185°F). The modular construction allows for fast delivery of most configurations and fittings. Delivery is typically stock to 1 week!

Specifications

Accuracy: 0.14% Best Straight Line (linearity, hysteresis and repeatability combined)

Temperature Compensation Over Compensated Range:

Span: 0.5%

Zero: 0.5%

Minimum Isolation Between Case and Output Terminations:

100 M Ω @ 50 Vdc

Pressure Cycles: 1 million, minimum

Long Term Stability (1-Year): $\pm 0.1\%$ FS typical

A to D Conversion: 14-Bit

Shock: 50 g, 11 mS half sine shock, (under test)

Vibration: $\pm 20\text{g}$ (under test)



FREE SOFTWARE INCLUDED!

Each unit includes free software that converts your PC into a strip chart recorder or data logger so readings can be saved and later printed or exported to a spread sheet file. Also included are software drivers for some of the most popular Laboratory programs.

Bandwidth: DC to 3 Hz typical

CE Compliant: Meets industrial emissions and immunity EN61326

Environmental Protection: IP65

Secondary Containment Vacuum and Pressure:

10 inH₂O to 5 psi: to 1000 psi

15 to 1000 psi: to 3000 psi

1500 to 5000 psi: to 15,000 psi

Secondary Containment Absolute Pressure:

5 to 1000 psi: to 6000 psi

1500 to 5000 psi: to 15,000 psi

Wetted Parts: 316L SS

Weight: 200 g (7 oz)

Overpressure Gage Pressure:

10 inH₂O: 10 times span

1 psi: 6 times span

2.5 psi to 3500 psi: 4 times span

5000 psi: 15,000 psi max

Overpressure Absolute Pressure:

5 psia: 6 times span

15 psia to 3500 psia: 4 times span

5000 psia: 15000 psi max

Operating Temperature Range: -40 to 85°C (-40 to 185°F)

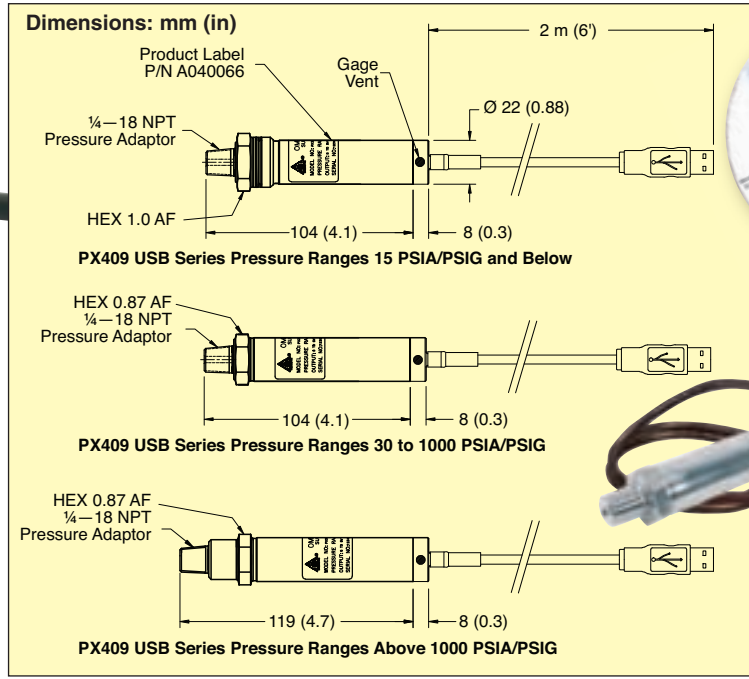
Compensated Temperature:

Ranges > 5 psi: -29 to 85°C (-20 to 185°F)

Ranges ≤ 5 psi: -17 to 85°C (0 to 185°F)

USB Output Pressure Transducer

Free Software Included!



Laptop not included.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)				
Range		Gage Pressure Model No.	Absolute Pressure Model No.	Price
psi	bar			
0 to 10 inH ₂ O	0 to 25 mb	PX409-10WGUSB	—	\$595
0 to 1	0 to 69 mb	PX409-001GUSB	—	595
0 to 2.5	0 to 172 mb	PX409-2.5GUSB	—	595
0 to 5	0 to 345 mb	PX409-005GUSB	PX409-005AUSB	545
0 to 15	0 to 1	PX409-015GUSB	PX409-015AUSB	545
0 to 30	0 to 2.1	PX409-030GUSB	PX409-030AUSB	545
0 to 50	0 to 3.4	PX409-050GUSB	PX409-050AUSB	545
0 to 100	0 to 6.9	PX409-100GUSB	PX409-100AUSB	545
0 to 150	0 to 10.3	PX409-150GUSB	PX409-150AUSB	545
0 to 250	0 to 17.2	PX409-250GUSB	PX409-250AUSB	545
0 to 500	0 to 34.5	PX409-500GUSB	PX409-500AUSB	545
0 to 750	0 to 51.7	PX409-750GUSB	PX409-750AUSB	545
0 to 1000	0 to 69	PX409-1.0KGUSB	PX409-1.0KAUSB	545
0 to 1500	0 to 103	PX409-1.5KGUSB	PX409-1.5KAUSB	545
0 to 2500	0 to 172	PX409-2.5KGUSB	PX409-2.5KAUSB	545
0 to 3500	0 to 241	PX409-3.5KGUSB	PX409-3.5KAUSB	545
0 to 5000	0 to 345	PX409-5.0KGUSB	PX409-5.0KAUSB	545
Vacuum Ranges (Negative Gage Pressure)				
0 to -10 inH ₂ O	0 to -25 mb	PX409-10WVUSB	—	\$600
0 to -1 psi	0 to -69 mb	PX409-001VUSB	—	600
0 to -2.5 psi	0 to -172 mb	PX409-2.5VUSB	—	600
0 to -5 psi	0 to -354 mb	PX409-005VUSB	—	550
0 to -15 psi	0 to -1034 mb	PX409-015VUSB	—	550
Compound Gage Ranges				
±10 inH ₂ O	±25 mb	PX409-10WCGUSB	—	\$665
±1 psi	±69 mb	PX409-001CGUSB	—	665
±2.5 psi	±172 mb	PX409-2.5CGUSB	—	665
±5 psi	±345 mb	PX409-005CGUSB	—	615
±15 psi	± 1 bar	PX409-015CGUSB	—	615

Comes complete with NIST traceable 5-point calibration certificate, CD with charting and graphing software plus drivers.
Ordering Examples: PX409-10WGUSB, 2 m (6') cable termination with USB connector, 10 inH₂O gage pressure, USB output, \$595.
 PX409-015VUSB, 2 m (6') cable termination with USB connector, 0 to -15 psi vacuum pressure, USB output, \$550.

To Order, Call **1-800-82-66342** or Shop Online at **omega.com**

PRESSURE



Visit omega.com/dilbert

for your daily dose of DILBERT!

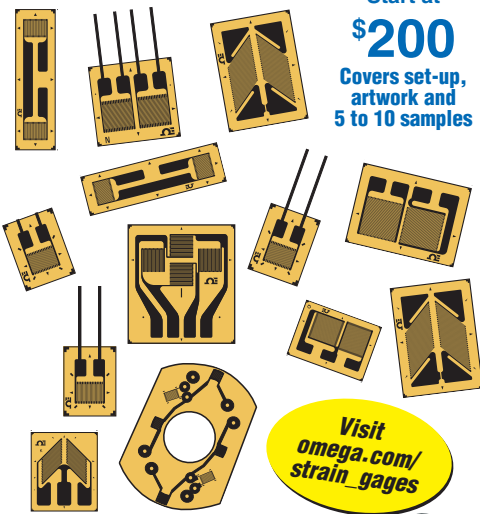
DILBERT® by Scott Adams

**Need a Custom Gage Fast?
Let us Design One For You!**

Custom Gages
Start at

\$200

Covers set-up,
artwork and
5 to 10 samples



Visit
[omega.com/
strain_gages](http://omega.com/strain_gages)

**Economical
Vibration Meter
Monitors Machinery
to Determine
Maintenance Needs**

HHVB82
\$699

Visit
[omega.com/
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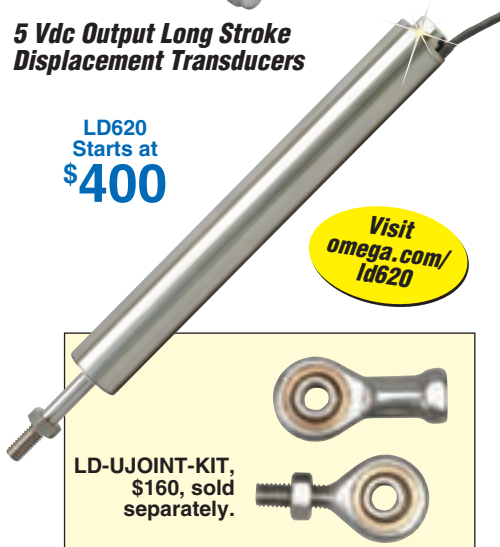


Magnetic mount
included.

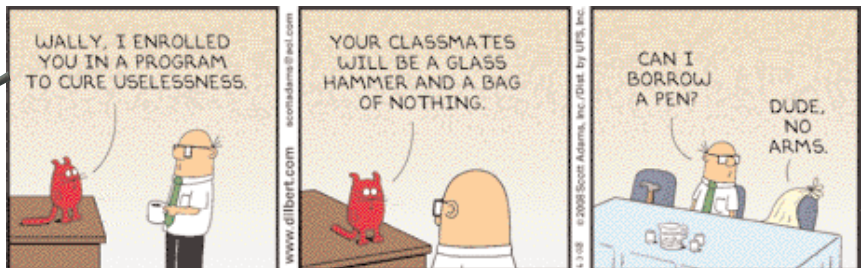
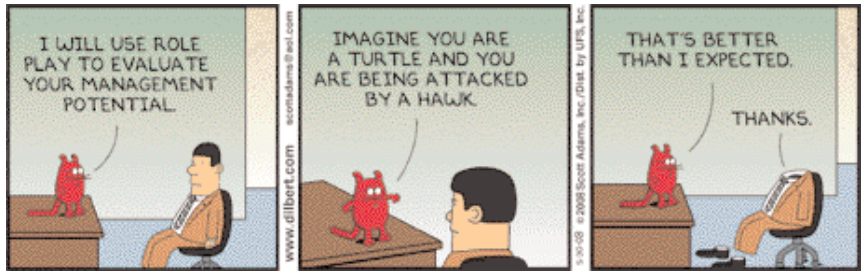
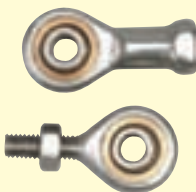
**5 Vdc Output Long Stroke
Displacement Transducers**

LD620
Starts at
\$400

Visit
[omega.com/
ld620](http://omega.com/ld620)



LD-UJOINT-KIT,
\$160, sold
separately.



Dilbert © United Feature Syndicate

Economical Strain Indicators with Built-In Sensor Excitation

For Complete Details Visit omega.com/dp25b

DP25B-S
\$245



DP25B-S, \$245, shown smaller than actual size.

- ✓ NEMA 4 (IP65) Front Panel
- ✓ 4-Digit Display, -1999 to 9999 counts
- ✓ Excitation Supply, Front Panel Tare, and Peak Hold Standard
- ✓ Accepts Voltage, Current, or Millivolt Inputs
- ✓ Easily Scaled to Display Readings in Engineering Units
- ✓ Program to Display in Red, Amber, or Green

The DP25B-S is a low-cost digital panel meter for use with voltage, current, or bridge-type transducers. For bridge sensors, the DP25B-S has a ratiometric input to correct for variations in excitation voltage. Standard features include a

front-panel tare button and a peak hold feature. Options include dual 5 A alarm relays and a scalable analog output configurable for 0 to 10V or 4 to 20 mA.

MOST POPULAR MODEL LISTED!

To Order (Specify Model Number)

Model No.	Price	Input Ranges*	Excitation
DP25B-S	\$245	0 to 100 mV, ±50 mV, 0 to 10V, ±5 V, 0 to 20 mA, 4 to 20 mA	24V @ 25 mA or 12V @ 50 mA, 5V @ 60 mA or 10V @ 120 mA

* Input ranges and excitation are user selectable.

Ordering Example: DP25B-S-AR, 115 Vac powered digital strain meter with analog and relay output options, \$245 + 80 + 70 = \$395.

High Performance Strain Meter with High Resolution 6-Digit Display

For Complete Details Visit omega.com/dp41-s

DP41-S
\$545



DP41-S and DP41-S-GN, \$545, shown smaller than actual size.

- ✓ Compatible with Strain Gage Bridge Sensors or Ratiometric Voltage Sensors
- ✓ Adjustable Filtering Up to 13 Hz
- ✓ Displays Up to 999,999 Counts
- ✓ NEMA 4 (IP65) Front Panel
- ✓ Remote Tare, Min, Max, Reset, and Hold Features
- ✓ Min/Max (Peak/Valley) Detection
- ✓ Red LED Display Standard, Green Optional



The high-performance DP41-S strain gage indicators have inputs for strain gage bridge and ratiometric voltage sensors. Built-in excitation is standard. The input range is selected via internal jumpers, and the user can perform scaling to engineering units on the front keypad. With optional RS232 or RS485 communications, the operator can program the display remotely.

MOST POPULAR MODEL LISTED!

To Order (Specify Model Number)

Model No.	Price	Description
DP41-S	\$545	Strain gage indicator

Ordering Example: DP41-S-S2-A, DP41 unit for one full Wheatstone bridge inputs with 115 Vac power, RS232 communications and analog output, \$545 + 110 + 110 = \$765

Very-High-Accuracy Digital Pressure Gauge Large, Easy-To-Read Display

DPG4000 Series
Starts at
\$820



**Backlit
Display
Standard!**



DPG4000-30, \$820, shown smaller than actual size.

- ✓ Ranges from Vacuum to 10,000 psi
- ✓ RS232 Communications Standard
- ✓ Very High Accuracy: $\pm 0.05\%$ FS
- ✓ Large, Backlit, 5-Digit Display with 16.5 mm (0.65") High Digits and 20-Segment Bar Graph
- ✓ Rugged Stainless Steel Case Meets NEMA 4 (IP65) Rating

For Complete Details Visit omega.com/dpg4000

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)				
Model No.	Price	Description (Range/Resolution)	Proof Pressure	Burst Pressure
DPG4000-15	\$820	0 to 15 psi range gauge	30 psi	500 psi
DPG4000-30	820	0 to 30 psi range gauge	60 psi	500 psi
DPG4000-500	820	0 to 500 psi range gauge	1000 psi	2000 psi
DPG4000-1K	820	0 to 1000 psi range gauge	2000 psi	10k psi

Comes complete with 3 "AA" batteries (when applicable), NIST-traceable calibration certificate, rubber boot and operator's manual

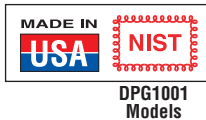
Note: Lower fitting standard. To order with rear mount, add suffix "-RM" to model number, and \$75 (all ranges, all models). To order 24 Vdc power option, add suffix "-DC" to model number and \$75 to price.

Ordering Example: DPG4000-15-RM, 0.05% digital pressure gauge with rear fitting and 0 to 15 psig range, \$820 + 75 = \$895.

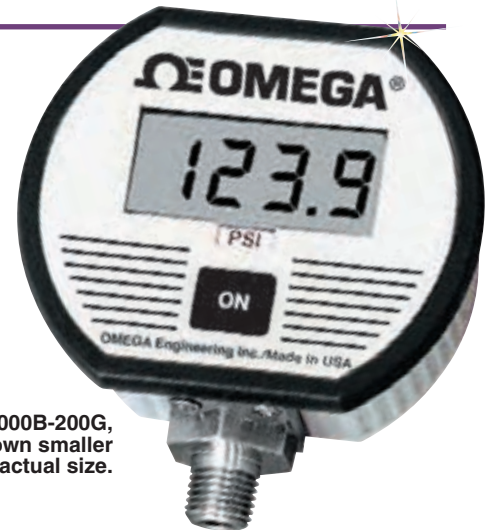
Battery-, Loop-, and AC-Powered Digital Pressure Gauges

Three Power Options: Battery, Loop, or AC/DC

DPG1000 Series
Starts at
\$259



**Backlit
Display
Optional!**



DPG1000B-200G, \$259, shown smaller than actual size.

- ✓ Vacuum to 5000 psi Ranges
- ✓ $\pm 0.25\%$ and $\pm 0.10\%$ Accuracy Models
- ✓ 316 SS Wetted Parts
- ✓ Loop Test Function
- ✓ Easy-to-Read 3½ Digit LCD
- ✓ Pressure or Vacuum Applications
- ✓ Rugged Aluminum or NEMA 4X (IP66) Case

For Complete Details Visit omega.com/dpg1000

The DPG1000 Series is a versatile family of industrial pressure/vacuum gauges. All DPG1000 models feature a large 13 mm (½") high digital display in a rugged, splashproof extruded aluminum case.

A ¼-18 NPT 316 stainless steel fitting is standard for the pressure connection. Media compatibility includes all liquids and gases compatible with 316 SS.

The DPG1000B Series features a wide operating temperature range of -20 to 85°C (-4 to 185°F). Many standard pressure/vacuum ranges (in a choice of engineering units) with both gauge and absolute references are available. The series also features $\pm 2x$ overpressure, and 4x burst specifications, and are available with either 0.25% or 0.10% accuracy.

Electronic Pressure Switches Integral Display and Solid State Outputs

For Complete
Details Visit
[omega.com/
psw2000](http://omega.com/psw2000)



PSW2000/1000 Series

Starts at

\$380



PSW2000 Series

- ✓ Dual Outputs: Two SSRs or SSR and Analog Output
- ✓ 3-Digit 10 mm Red LED Display
- ✓ 10-Bit A/D Resolution

PSW1000 Series

- ✓ Three Outputs: Dual SSRs plus Analog Output
- ✓ 4-Digit 5 mm Alphanumeric Green Display
- ✓ 12-Bit A/D Resolution

PSW2002-750, \$380, with PSW2000-CONN optional DIN connector, \$40, both shown smaller than actual size.

The PSW2000 and PSW1000 high performance pressure switches feature 304 SS wetted parts with a piezoresistive pressure sensor. Both units have 0.5% FS accuracy, solid state switch output(s), and are easy to program, with 3 pushbuttons.



PSW1000-150-I with DIN connector included, \$570.

Industrial Digital Pressure Gauges DC-, Loop-, or Battery-Powered Models

All Models Meet ASME B 40.1 Grade
3A ($\pm 0.25\%$ of Span) Accuracy
3 or 4 1/2" Gauges

DPG9000 Series

Starts at

\$345



Loop and DC
Powered Models
Available with Backlit
Display and Battery
Backup

- ✓ A Multifunction Digital Gauge with Optional 4 to 20 mA Output and 1 or 2 SPDT Switches
- ✓ $\pm 0.25\%$ of Span Terminal Point Accuracy
- ✓ NEMA 4 (IP65) Weatherproof Case
- ✓ 76 mm (3") Stainless Steel Case or 114 mm (4 1/2") Fiberglass-Reinforced Thermoplastic Case
- ✓ Extra-Large Display with Bar Graph
- ✓ Min/Max Readings
- ✓ Easy-to-Use Menu Options (All Password Protected)
- ✓ 10 User-Selectable Engineering Units
- ✓ Backlit Display Available

For Complete
Details Visit
[omega.com/
dpg9000](http://omega.com/dpg9000)



DPG9245-300-A, 4 1/2" gauge, with battery back-up, backlit display and 4 to 20 mA output, \$635, shown smaller than actual size.

Backlit Display
Available on
All Models

PRESSURE



Dual Input Differential Manometer USB and **Wireless** Versions Available

HHP886 Series
Starts at
\$155



For Complete
Details Visit
[omega.com/
hhp886](http://omega.com/hhp886)

**Tubing
Included!**

HHP886, \$155, shown
smaller than actual size.



- ✓ Dual Display and Dual Pressure Inputs
- ✓ Displays Input 1, Input 2 or Differential Pressure
- ✓ User Selectable Units, psi, mbar, inH₂O and mmH₂O
- ✓ Protective Rubber Boot Included
- ✓ USB and Wireless Models with Data Logging Software

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
HHP886	\$155	Battery powered dual input manometer
HHP886U	175	Battery powered dual input manometer with USB output, includes USB cable and software
HHP886W	210	Battery powered dual input manometer with wireless interface (US version), includes wireless receiver and software

Comes complete with two 1.5 m (5') lengths of tubing with 1/8 MNPT adaptors, 4 "AAA" batteries, protective rubber boot and operator's manual.

Ordering Examples: HHP886, handheld manometer with tubing and fittings, \$155.
HHP886W, handheld manometer with tubing, wireless receiver and software, \$210.

Handheld Digital Manometer For Differential, Gage And Absolute Pressure

HHP240 Series
Starts at
\$380



For Complete
Details Visit
[omega.com/
hhp240](http://omega.com/hhp240)

- ✓ Gage, Absolute and Differential Pressure Models
- ✓ MIN/MAX, Hold and Display Averaging Modes
- ✓ 8 User Selectable Engineering Units
- ✓ User Activated Back Light
- ✓ Auto Shutoff After 20 Minutes of Keypad Inactivity
- ✓ 0 to 100% Horizontal Bargraph

HHP241-100G,
\$380, shown
smaller than
actual size.



MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model No.	Price	Accuracy	Model No.	Price	Accuracy	Range
HHP241-005G	\$380	±0.25% FS	HHP242-005G	\$450	±0.1% FS	0 to 0.3 bar (0 to 5 psi) gage
HHP241-015G	380	±0.25% FS	HHP242-015G	450	±0.1% FS	0 to 1 bar (0 to 15 psi) gage
HHP241-030G	380	±0.25% FS	HHP242-030G	450	±0.1% FS	0 to 2 bar (0 to 30 psi) gage
HHP241-100G	380	±0.25% FS	HHP242-100G	450	±0.1% FS	0 to 7 bar (0 to 100 psi) gage
HHP241-028D	380	±0.25% FS	HHP242-028D	450	±0.1% FS	0 to 70 mbar (0 to 28 inH ₂ O) differential
HHP241-138D	380	±0.25% FS	HHP242-138D	450	±0.1% FS	0 to 344 mbar (0 to 138 inH ₂ O) differential
HHP241-832D	380	±0.25% FS	HHP242-832D	450	±0.1% FS	0 to 2072 mbar (0 to 832 inH ₂ O) differential
HHP241-015A	400	±0.25% FS	HHP242-015A	475	±0.1% FS	0 to 775 mmHg (0 to 15 psi) absolute
HHP241-030A	400	±0.25% FS	HHP242-030A	475	±0.1% FS	0 to 1551 mmHg (0 to 30 psi) absolute

Comes complete with 3 "AA" batteries, protective rubber boot and operator's manual.

Ordering Examples: HHP241-030G, handheld manometer with ±0.25% FS accuracy and a 0 to 2 bar (0 to 30 psig) range, \$380.

HHP242-832D, handheld manometer with ±0.1% FS accuracy and a 0 to 832 inH₂O (2.07 bar) of water differential pressure range, \$450.



Handheld Smart Manometer

For Differential, Gage And Absolute Pressure

Gage And Absolute Models: Wet

For Complete Details Visit omega.com/hhp351

HHP350 Series Starts at **\$775**



- ✓ Gage, Absolute or Differential Ranges Available
- ✓ User Selectable Engineering Units
- ✓ High Accuracy, 0.05% FS Standard with 0.025% Optional
- ✓ MIN/MAX Hold and Leak Test Functions
- ✓ Programmable Damping Rates, and Auto Shutoff

HHP351-C, \$775, shown smaller than actual size.



MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)						
Model No.	Price	Accuracy	Model No.	Price	Accuracy	Range
HHP351-A	\$925	0.05% FS	-	-	-	0 to 70 mbar (0 to 28) inH ₂ O differential
HHP351-B	775	0.05% FS	HHP352-B	\$925	0.025% FS	0 to 500 mbar (0 to 200) inH ₂ O differential
HHP351-C	775	0.05% FS	HHP352-C	925	0.025% FS	0 to 2000 inH ₂ O (72 psi) differential pressure range
HHP351-D	925	0.05% FS	HHP352-D	1075	0.025% FS	0 to 1 bar (0 to 15 psi) gage pressure
HHP351-G	925	0.05% FS	HHP352-G	1075	0.025% FS	0 to 21 bar (0 to 300 psi) gage pressure
HHP351-I	975	0.05% FS	HHP352-I	1125	0.025% FS	0 to 2000 mm (0 to 79) inHg absolute pressure

Comes complete with 4 "AA" batteries, protective rubber boot and operator's manual.

Ordering Example: HHP352-G, handheld manometer with 0.025% FS accuracy and 0 to 21 bar (0 to 300 psig) range, \$1075.

High Accuracy Digital Barometer

Precision Absolute Manometer

HHP360 Series Starts at **\$1475**



For Complete Details Visit omega.com/hhp360

HHP360-B, \$1475.



- ✓ Very High 0.015% Accuracy
- ✓ Absolute Pressure
- ✓ Barometric Pressure (Corrected to Sea Level)
- ✓ Altitude in Meters or Feet (Corrected to Sea Level)
- ✓ Altitude Can be User Set Based Upon Map or Trig Marker or for Local Conditions
- ✓ 7 Pressure Units
- ✓ Easy to Read Backlight Display

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
HHP360-A	\$1595	Precision absolute manometer, 0 to 900 mmHg (0 to 17 psia)
HHP360-B	1475	Precision absolute manometer, 0 to 2000 mmHg (0 to 38 psia)

Comes complete with operator's manual, NIST traceable calibration certificate, 4 "AA" batteries, and protective rubber boot.

Ordering Example: HHP360-B, precision handheld manometer, 0 to 2000 mmHg range, \$1475.

To Order, Call **1-800-82-66342** or Shop Online at omega.com

Pressure Calibration Kit With 0.05% Digital Pressure Gauge and Hand Pump

DPG4000-KIT
Starts at
\$1465



For Complete
Details Visit
[omega.com/
dpg4000-kit](http://omega.com/dpg4000-kit)



DPG4000-30-KIT, \$1465.

- ✓ Ranges from Vacuum to 10,000 psi
- ✓ RS232 Digital Communications Standard
- ✓ Pump and Hose Included
- ✓ Very High Accuracy: $\pm 0.05\%$ FS
- ✓ Temperature Compensated: 0 to 50°C (32 to 122°F)
- ✓ Displays in 18 Standard or Custom Engineering Units

- ✓ Displays Ambient Temperature in °C or °F
- ✓ Large, Backlit, 5-Digit Display with 16.5 mm (0.65") High Digits and 20-Segment Bar Graph

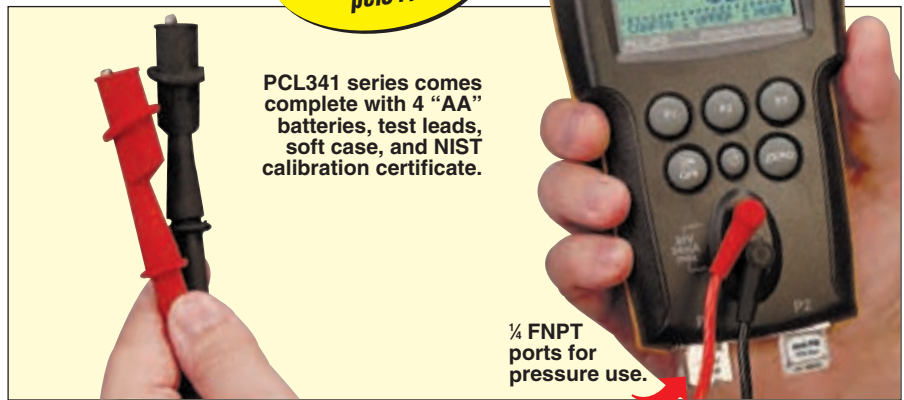
Kit includes
gauge, hand pump,
carrying case
and hose.

High-Accuracy Pressure Calibrators Single and Dual Range Models

PCL341 Series
Starts at
\$1495



For Complete
Details Visit
[omega.com/
pcl341](http://omega.com/pcl341)



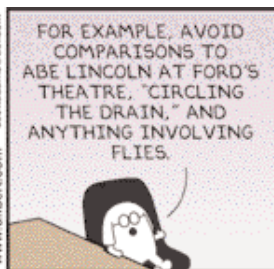
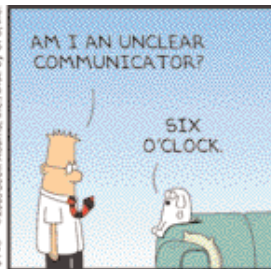
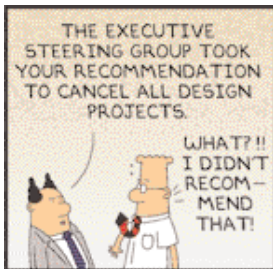
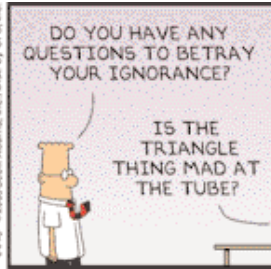
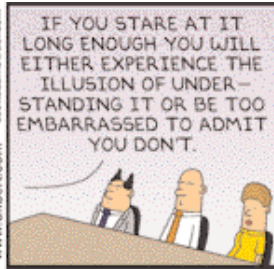
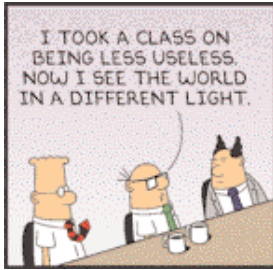
PCL341 series comes complete with 4 "AA" batteries, test leads, soft case, and NIST calibration certificate.

1/4 FNPT
ports for
pressure use.

- ✓ Triple Display: Pressure, Temperature, Process Voltage and Current
- ✓ Isolated, Stainless Steel Pressure Sensors with 0.025% FS Accuracy
- ✓ External Connection Supports All OMEGA® PCL-PM Series Pressure Modules (25 Ranges) for Greater Measurement Capability

- ✓ Pt100 RTD Input for Temperature Measurement—Accurate to 0.1°C (0.2°F)
- ✓ Measures 4 to 20 mA Input
- ✓ Internal 24 V Loop Power Supply Can Power a Transmitter Under Test
- ✓ Measures Up to 30 Vdc

- ✓ Large, Graphic-Style LCD with Backlight
- ✓ Can Display Up to 3 Inputs Simultaneously (e.g., Pressure 1, Pressure 2, and RTD)
- ✓ Up to 5-Setups Can be Stored; Last Setup Automatically Recalled on Power-Up



Dilbert © United Feature Syndicate

Compact, Vibration-Resistant Switches for Division 1 Hazardous Locations 8 TO 6000 PSI

PSW-12 Series Starts at **\$250**



Visit omega.com/psw-12

Low-Profile Pancake style Load Cells Tension/Compression Calibrated in Tension 5 lb to 500,000 lb 2.3 kg to 226,860 kgf

LCHD Series Starts at **\$765**



Visit omega.com/lchd

Subminiature Industrial Compression Load Cell Very Low Profile Compression 0-2.2 lb to 0-1000 lb 0-10 to 0-5000 N

LCKD Series Starts at **\$550**



Visit omega.com/lckd



Precision Handheld Pumps For Pressure and Vacuum Calibration

HPP Series
Starts at
\$345



For Complete
Details Visit
[omega.com/
hpp_series](http://omega.com/hpp_series)

- ✓ Pneumatic Models for Vacuum and Pressure to 41 bar (600 psi)
- ✓ Hydraulic Model for 0 to 690 bar (0 to 10,000 psi)
- ✓ Precision Vernier for Fine Adjustments
- ✓ Designed for High Reliability and High Performance

OMEGA's HPP Series precision calibration pumps are designed to provide long term reliability in harsh environments. Four models are available to cover ranges from vacuum up to 690 bar (10,000 psi). Pumps can be purchased separately or as a kit that includes a carrying case, tubing and fittings.

The HPP-100 and HPP-VAC are economical pumps designed for 0 to 6.9 bar (0 to 100 psi) or 0 to -0.95 bar (0 to -28 inHg vacuum). Both models feature dual O-rings on all pistons for smooth operation with zero leakage. A "mash proof" schrader valve replaces the needle valve commonly used for the vent.



HPP-VAC
pneumatic
pump, \$345.



HPP-600 pneumatic
pump, \$545.

HPP-600 The HPP-600 is a pneumatic pump that can generate both vacuum and pressure. It covers a range from -0.95 bar (28 inHg) vacuum to 41 bar (600 psi) pressure. Dual O-rings, oversized check valves, and a "mash proof" vent valve ensure smooth, trouble free operation.

HPP-10K The HPP-10K hydraulic pump can generate pressure from 0 to 690 bar (0 to 10,000 psi). It is compatible with most hydraulic fluids, oils and water. A precision stroke control adjustment allows for fast priming or shorter stroke for easier pumping at high pressure. It features a shatter proof reservoir, triple filtration system and a built-in pressure relief valve.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Pumps Only

Model No.	Price	Description
HPP-100	\$345	Handheld pneumatic pressure pump, 0 to 6.9 bar (0 to 100 psi)
HPP-VAC	345	Handheld pneumatic vacuum pump, 0 to -0.95 bar (0 to -28 inHg vacuum)
HPP-600	545	Handheld pneumatic vacuum/pressure pump, -0.95 to 41 bar (-28 inHg to 600 psi)
HPP-10K	845	Handheld hydraulic pressure pump, 0 to 690 bar (0 to 10,000 psi)

Pump Kits (Kits Include Pump, Carrying Case, Tubing with Fittings)

HPP-100-KIT	\$465	HPP-100 pump, carrying case, HPP-HOSE and 64 mm (2 1/2") gauge
HPP-VAC-KIT	465	HPP-VAC pump, carrying case, HPP-HOSE and 64 mm (2 1/2") gauge
HPP-600-KIT	695	HPP-600 pump, carrying case and HPP-600-HOSE
HPP-10K-KIT	995	HPP-10K pump, carrying case, fluid bottle and HPP-10K-HOSE

Accessories

Model No.	Price	Description
HPP-HOSE	\$49	0.6 m (2') tubing with 1/8 NPT fittings for HPP-100 or HPP-VAC
HPP-600-HOSE	69	0.6 m (2') tubing with 1/8 NPT fittings for HPP-600
HPP-10K-HOSE	145	0.9 m (3') high pressure tubing for HPP-10K with (2) 1/4 BSPM self sealing test point adaptors
HPP-10K-FW	25	Replacement filters and washers for HPP-10K

Comes complete with operator's manual. Units with BSP fittings also include NPT adaptors.

Ordering Examples: HPP-100, handheld pressure pump, 0 to 6.9 bar (0 to 100 psi), \$345.

HPP-600-KIT, vacuum to 41 bar (600 psi) pump kit with carrying case, tubing and fittings, \$695.

Heavy-Duty Electropneumatic Converters

Current to Pressure (I/P) and
Voltage to Pressure (E/P) Models

For Complete
Details Visit
omega.com/ip510

IP510 Series
Starts at
\$510



- ✓ Hazardous Location and Intrinsically Safe Ratings
- ✓ NEMA 4X (IP66)
- ✓ 0.1% Accuracy Typical
- ✓ Closed-Loop Pressure Feedback Control



EP511-X30, \$695,
with NEMA 4X
enclosure.



IP510-X27,
\$510, with
NEMA 1 enclosure.
Both units shown much
smaller than actual size.

Miniature I/P Transducers Electronic Air Pressure Control

IP610 Series Up to 1% Accuracy 3-15 to 0-120 psi
IP710 Series ±0.1% Accuracy 3-15 to 0-100 psi

IP610 and IP710 Series
Starts at
\$320

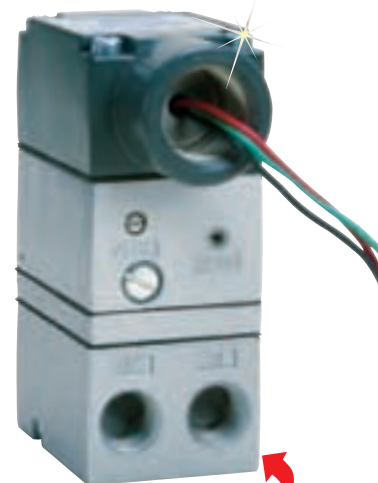
For Complete
Details Visit
omega.com/ip610



- ✓ Compact Size for High-Density Mounting
- ✓ NEMA 4X (IP65) Enclosure
- ✓ 4 to 20 mA Loop Powered



IP710-X100-D with DIN
electrical termination, \$490.



IP610-X60 with conduit
electrical termination, \$320.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)							
Model No.	Price	Range	Accuracy*	Impedance	Air Consumption	Supply Pressure (psi)	Flow Capacity
General Purpose I/P Converters							
IP610-X15	\$320	3 to 15 psi	±2.5% span	180 Ω	1.8 scfh @ mid-range	20 to 100	4.5 scfm @ 25 psig
IP610-X60	320	2 to 60 psi		245 Ω		65 to 150	12 scfm @ 100 psig
IP610-120	370	0 to 120 psi		315 Ω	6.0 scfh @ mid-range	125 to 150	12 scfm @ 100 psig 20 scfm @ 150 psig
High Accuracy I/P Converters							
IP710-X15	\$450	3 to 15 psi	±0.10% span	10 kΩ	1.5 scfh @ mid-range	20 to 100	4.5 scfh @ 25 psig 12 scfm @ 100 psig
IP710-X100	475	2 to 100 psi			4.5 scfm @ mid-range	105 to 130	20 scfm @ 130 psig

* Accuracy includes linearity, hysteresis and repeatability

To order with DIN connector, add suffix "-D" to model number and \$15 to price.

Comes complete with mounting bracket and operator's manual.

Ordering Example: IP610-X15, loop powered I/P converter with 3 to 15 psi range and conduit connection, \$320.



Stainless Steel Filter Regulators For Harsh Environments

PRG354 up to 20 scfm
PRG352 up to 160 scfm

PRG350 Series
Starts at
\$365



- ✓ All 316 Stainless Steel Construction
- ✓ High Flow Capacity
- ✓ Tapped Exhaust Port for Remote Venting
- ✓ Minimal Air Consumption
- ✓ 25 Micron Filter

The PRG350 Series of stainless steel filter regulators are designed to stand up to the harshest environments while providing highly accurate pressure regulation. Proven 316 stainless steel housing and filter assemblies along with fluorocarbon elastomers make the PRG350 compatible with sour gas and adaptable to off shore environments.

For Complete Details Visit omega.com/prg350



PRG354-30, \$365, shown smaller than actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model No.	Price	Output Pressure Range	
		psi	bar
1/4 NPT Pressure Ports			
PRG354-30	\$365	0 to 30	0 to 2.1
PRG354-100	365	0 to 100	0 to 6.9
1/2 NPT Pressure Ports			
PRG352-100	\$505	0 to 100	0 to 6.9

Comes complete with operator's manual.

Ordering Example: PRG354-30, stainless steel pressure regulator with 0 to 30 psi range and 1/4 NPT ports, \$365.

Precision Air Pressure Regulator For Accurate, Stable Pressure Control

14 scfm at 100 psi

PRG200 Series
Starts at
\$100



- ✓ Accurate Pressure Regulation to Within 0.1%
- ✓ Stable Output Across Full Flow Range
- ✓ High Relief Capacity
- ✓ Locking Nut Included
- ✓ Built In Gauge Ports

The PRG200 Series is a high precision multi-stage regulator, which provides the highest level of regulation accuracy and repeatability available. A stainless

steel measuring capsule is used as a sensing element to activate the high gain servo balanced control mechanism in which the main valve is controlled by a pilot valve. This allows for greater accuracy and eliminates many of the problems associated with conventional regulators using range springs and diaphragms.

For Complete Details Visit omega.com/prg200



PRG200-40, \$100, shown smaller than actual size.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Output Pressure Range	
		psi	bar
PRG200-25	\$125	0.5 to 25	0.03 to 1.72
PRG200-40	100	2 to 40	0.14 to 2.76
PRG200-60	100	2 to 60	0.14 to 4.14
PRG200-120	100	2 to 120	0.14 to 8.27
High Relief Model			
PRG200-120H	\$115	2 to 120	0.14 to 8.27

Comes complete with operator's manual.

Ordering Example: PRG200-60, precision air pressure regulator, 2 to 60 psi (0.14 to 4.14 bar), \$100.

Economical Digital Force Gages With 0.5% Full Scale Accuracy

DFG21 Series
\$630
All Models



- ✓ User Selectable Units of Measure
- ✓ Accuracy $\pm 0.5\%$ of Full Scale
- ✓ NIST Calibration Certificate Included
- ✓ Selectable Display Languages
- ✓ Battery Operated with Automatic Shutoff
- ✓ 115/230 Vac Adaptor with US/EUR/UK Plugs Included

OMEGA's DFG21 Series is an economical digital force gage ideal for applications where users are interested in basic peak force measurement. It is available in four capacities (10, 50, 100, and 200 lbf) and features a measurement accuracy of better than 0.5% full scale. The DFG21 operates using two 9 Vdc alkaline batteries or using the universal battery eliminator. A large, easy-to-read, high resolution dot matrix LCD supports a variety of standard gage functions including normal and peak readings. Loads are displayed in ozf, gf, lbf, kgf and Newtons and the display language may be set-up to indicate in English, Spanish, French, German, Portuguese and Chinese.



DFG21-50,
\$630.

For Complete Details Visit omega.com/dfg21

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model No.	Price	Range vs Resolution				
		oz	g	lb	kg	Newton
DFG21-10	\$630	160 x 0.2	5000 x 5	10 x 0.01	5 x 0.005	50 x 0.005
DFG21-100	630	1600 x 2	50,000 x 50	100 x 0.1	50 x 0.05	500 x 0.5

Comes complete with a hard carrying case, two 9 Vdc batteries, universal battery eliminator, hook, flat tip, calibration certificate, and operator's manual.

Ordering Example: DFG21-10, 10 lb digital force gage, \$630.

Electronically Controlled Proportioning Valves

PV Series
Starts at
\$920



For Complete Details Visit omega.com/pv_valves

- ✓ Programmable Direct- or Reverse-Acting Control
- ✓ Precision Control is Achieved via a 10-Bit Converter Controlling a 200 Stepper Revolution Motor
- ✓ Rugged Construction for Industrial Applications
- ✓ External Safety Override Contacts to Open/Close Valve
- ✓ NEMA 4 (IP65) Rating for Outdoor Use
- ✓ Ideal for Liquid and Gas Applications
- ✓ Brass or Stainless Steel Body Available



PV14-SS, \$1145, shown much smaller than actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model No.	Price	Valve Size mm (in)	Fitting Size	C _v	Max Flow @ 50 psi	Body Material
PV14-B	\$920	6.35 (1/4)	1/2 NPT	0.6	4 GPM	Brass
PV38-B	950	9.53 (3/8)	1/2 NPT	1.7	12 GPM	Brass
PV12-B	1140	12.70 (1/2)	3/4 NPT	3.5	24 GPM	Brass
PV12-SS	1420	12.70 (1/2)	3/4 NPT	3.5	24 GPM	316 SS
PV34-B	1510	19.05 (3/4)	1 NPT	6.5	45 GPM	Brass

Comes complete with operator's manual.

Ordering Example: PV14-B, 4 GPM brass proportioning valve, \$920.

To Order, Call **1-800-82-66342** or Shop Online at omega.com



High-Accuracy Portable, Pressure Calibrators With Built-In Pneumatic Pressure Pump

PCL810 Series
Starts at
\$2950



Standard

- ✓ 0.025% FS Accuracy
- ✓ Calibration Certified to International Standards
- ✓ Integral Pressure/Vacuum Pumps
- ✓ Dual Backlit Display of Output Pressure and Electrical Input
- ✓ 4 to 20 mA Loop Test with Auto Step and Ramp
- ✓ USB Interface with SD Card Data Storage
- ✓ Multilingual Display
- ✓ Available Built-In WiFi Option

For Complete Details Visit omega.com/pcl810

Removeable SD Memory Card for Data Storage and Retrieval

Optional WiFi Available



PCL810PC-300, \$2950, shown smaller than actual size.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model No.	Price	Range (psi)	Description
PCL810PC-300	\$2950	-15 to 300	Electric/pneumatic pressure calibrator
PCL810HC-3K	4190	0 to 3000	Hydraulic pressure calibrator

Comes complete with carrying case, 6 "C" rechargeable batteries, charger, calibration certificate, SD card, USB cable, user software, and operator's manual. Visit omega.com/pcl810 for remote sensor ranges.

Ordering Example: PCL810PC-300-W, -15 to 300 psi calibrator with WiFi option, \$2950 + 195 = \$3145.

Very High Accuracy Digital Pressure Gauge 316 SS Body, Analog Output and Optional Wireless Transmitter

DPG409 Series
Starts at
\$695



Standard

- ✓ Large Backlit Display with 25 mm (1") Digits Readable From Over 10.7 m (35')
- ✓ High Accuracy and Repeatability
- ✓ Ranges From 10 inH₂O to 5000 psi (25 mb to 345 bar)
- ✓ All Stainless Steel Wetted Parts

Charting and Data Logging Software Included FREE with Wireless Option

For Complete Details Visit omega.com/dpg409

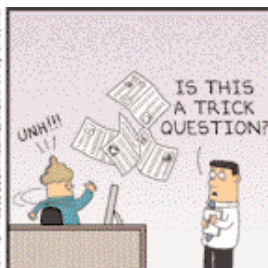
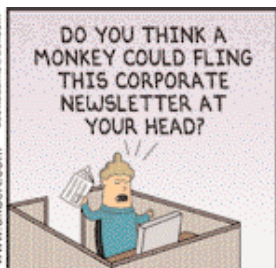
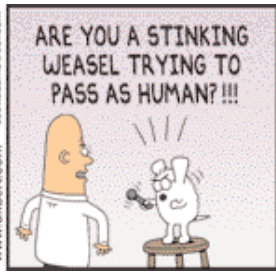
- ✓ Gage and Absolute Pressure Models
- ✓ 4 to 20 mA, 0 to 5V or 0 to 10V Analog Output Standard
- ✓ Free Setup and Calibration Software with USB Connection
- ✓ Optional Wireless Transmitter Available
- ✓ Long Battery Life

Antenna connection for wireless option.



Standard integral pressure sensor.

DPG409-500G-W, \$795, shown actual size.



Dilbert © United Feature Syndicate

Paddlewheel Flow and Temperature Sensor/Transmitter System

FP7002A Starts at **\$365**



Visit omega.com/fp7002



Clear In-Line Flowmeters

FLC Series Starts at **\$98** **MADE IN USA**

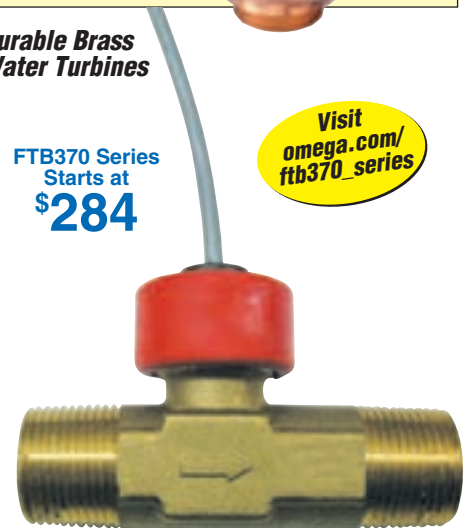
Visit omega.com/flc_series



Durable Brass Water Turbines

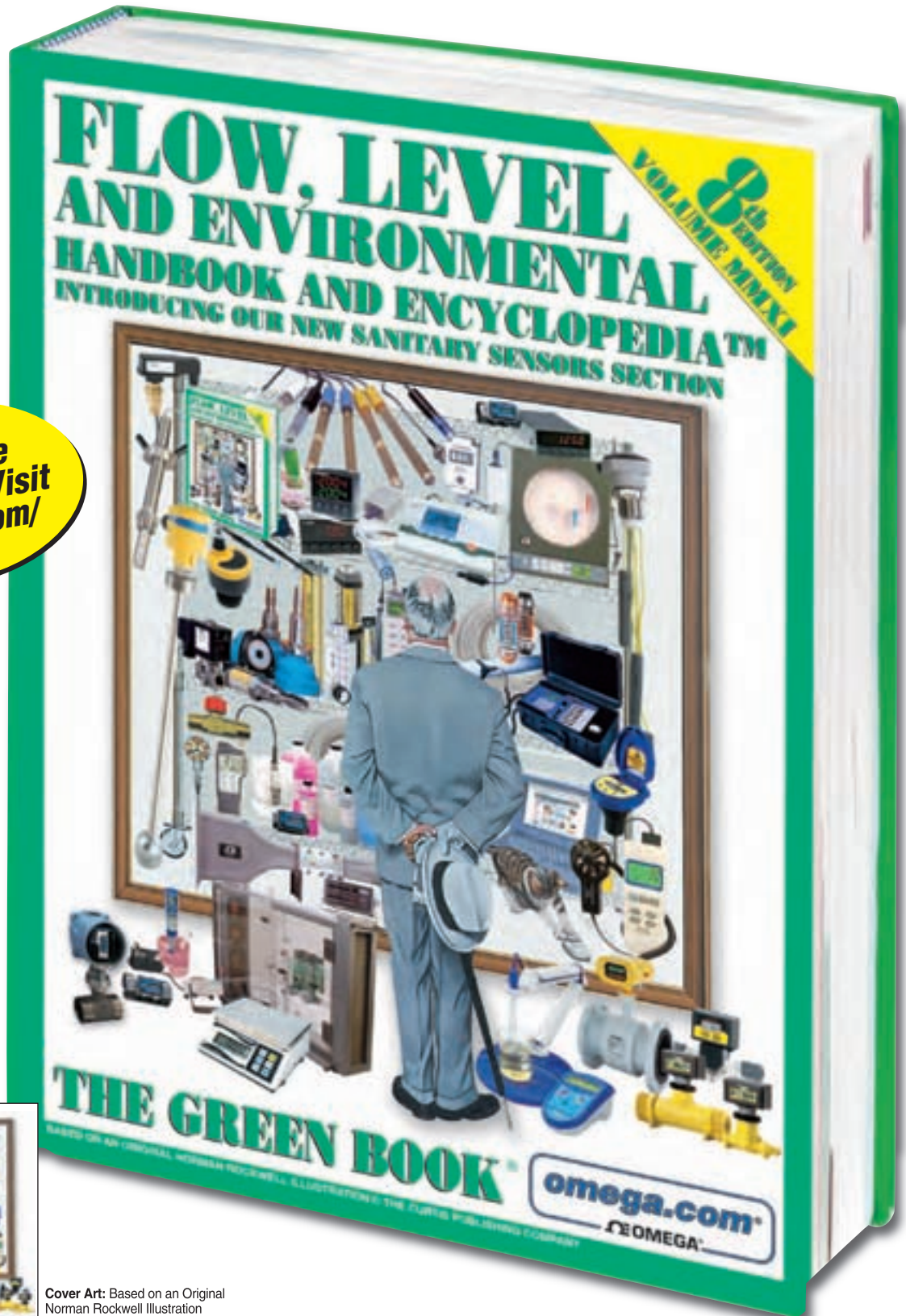
FTB370 Series Starts at **\$284**

Visit omega.com/ftb370_series



FLOW, LEVEL AND ENVIRONMENTAL

A SELECTION OF OUR MOST POPULAR PRODUCTS



For Our Complete Selection Visit omega.com/flow



Cover Art: Based on an Original Norman Rockwell Illustration © The Curtis Publishing Company

General Purpose Industrial Air Velocity/Temperature Transmitter/Indicator



6 OD x 305 mm L (¼ x 12") sensor probe included with 4.5 m (15') cable

FMA1000 Series Starts at **\$665**

For Complete Details Visit omega.com/fma1000



HHF1000 Wireless Handheld Version on Page 146



FMA1001R-V1, \$695, shown smaller than actual size.

- ✓ Measures Air Velocities up to 50.8 m/sec (10,000 FPM)
- ✓ Measures Air Temperature up to 121°C (250°F)
- ✓ High Temperature Model Measures Air Temperature up to 171°C (340°F)
- ✓ 1.5% Full Scale Accuracy (Velocity)
- ✓ 0.5% Full Scale Accuracy (Temperature)
- ✓ Hot Wire Air Velocity Sensor Design
- ✓ 250 msec Response Time Programmable up to 2 Seconds
- ✓ Large Backlit LCD Displays Air Velocity and Air Temperature Simultaneously

- ✓ Dual Linear Analog Outputs for Air Velocity and Temperature
- ✓ USB PC Interface with Windows® Based PC Software
- ✓ NEMA 4 (IP65) Industrial Enclosure

For a video of this product visit omega.com/video.

Economical, Laboratory-Grade Benchtop Mini Wind Tunnel

WTM-1000 **\$2995**

For Complete Details Visit omega.com/wtm-1000



For a video of this product visit omega.com/video.



WTM-1000, \$2995, with electronic control box included and HHF11A anemometer, \$315, sold separately, shown smaller than actual size.

- ✓ 4 Selectable Air Speeds:
 - 2.5 m/s (492 fpm)
 - 5.0 m/s (984 fpm)
 - 10 m/s (1969 fpm)
 - 15 m/s (2953 fpm)
- ✓ Accommodates Either Hot Wire or Vane Type Anemometers
- ✓ 10 cm (4") Diameter Internal Test Chamber
- ✓ Accuracy of 1% of Settings or 0.1 m/s, Whichever is Greater

- ✓ Remote Option for Variable Air Speed
- ✓ NIST Calibration Certificate Supplied
- ✓ Operates from 90 to 250 Vac Line Power

To Order, Call **1-800-82-66342** or Shop Online at omega.com

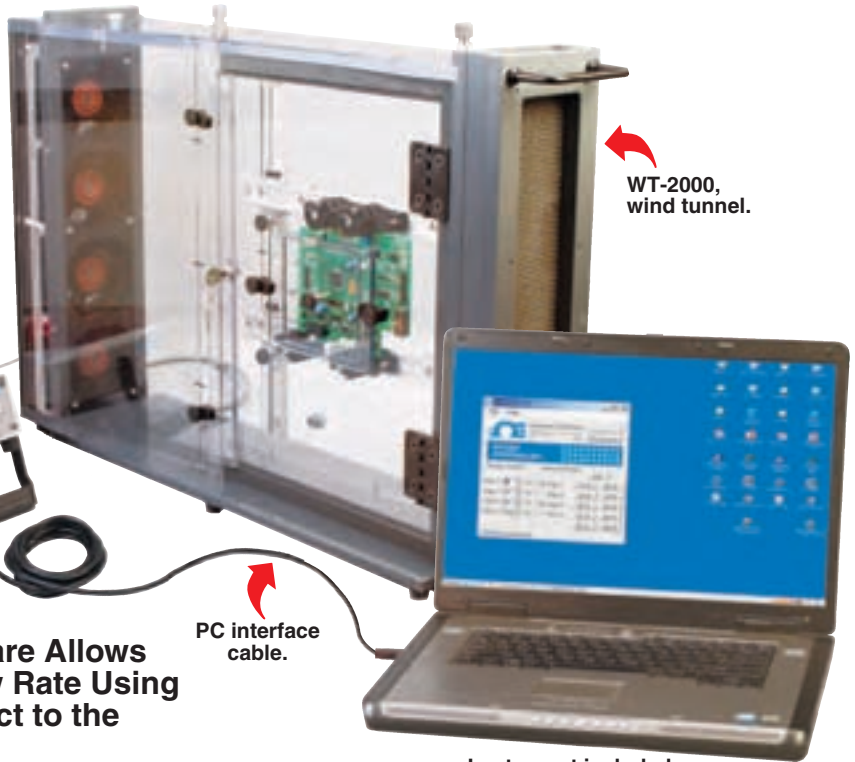
FLOW, LEVEL, AND ENVIRONMENTAL

High-Performance Wind Tunnel

For Thermal Evaluation of Circuit Boards, Heat Sinks, Components and Air Velocity Sensor Calibrations

WT-2000
\$4995
 Complete Package

For Complete Details Visit omega.com/wt-2000



Power cord (for US, Canada and Mexico).

Fan control cable.

WT-2000, wind tunnel.

Complete WT-2000 system package includes wind tunnel, controller, fan control and PC interface cables, PC software, power cord and operator's manual, \$4995. System shown smaller than actual size.

PC interface cable.

Laptop not included.

- ✓ Portable Bench-Top Design
- ✓ Free PC Based Open Loop Software Allows User to Precisely Control Air Flow Rate Using the Included USB Cable to Connect to the Control Box
- ✓ Large Test Chamber with a Hinged Access Door
- ✓ Operates from 90 to 264 Vac Line Power

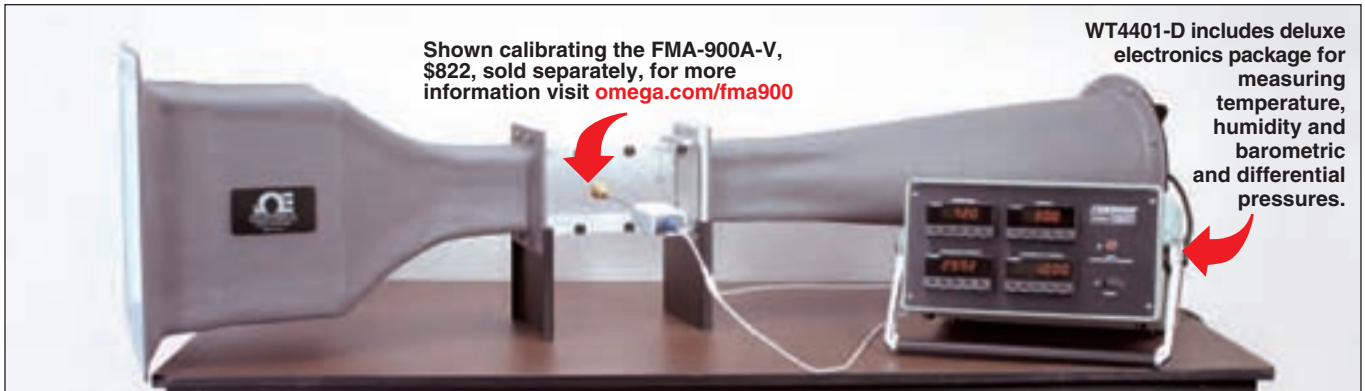
OMEGA's Laboratory-Grade Benchtop Wind Tunnel

WT4401-D
\$11,700



For Complete Details Visit omega.com/wt4401

For a video of this product visit omega.com/video.



Shown calibrating the FMA-900A-V, \$822, sold separately, for more information visit omega.com/fma900

WT4401-D includes deluxe electronics package for measuring temperature, humidity and barometric and differential pressures.

- ✓ Precise Motor Control for Adjusting Flowrates
- ✓ NIST Calibration Supplied with Each Wind Tunnel
- ✓ Highly Accurate to 1% of Reading
- ✓ Large 101.6 x 101.6 mm (4 x 4") Test Chamber
- ✓ Fully Instrumented

Velocity and Temperature Measurement System



TVS-1000 Series
Starts at
\$3025



For Complete
Details Visit
[omega.com/
tvs-1000](http://omega.com/tvs-1000)

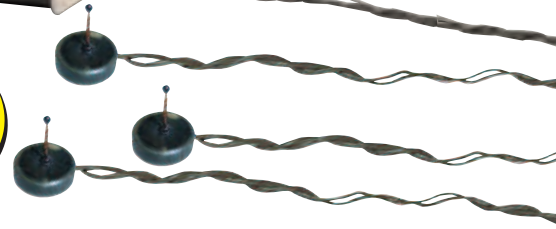


TVS-1004, \$3025, shown smaller than actual size.

- ✓ Flexible Sensors
- ✓ Thin Low Profile for Minimal Flow Disturbance
- ✓ High Accuracy
- ✓ Air Velocity and Temperature Measurements in One Sensor
- ✓ Research Quality Results

The TVS-1000 series employ patented, fast response, omni-directional sensors, which measure both temperature and velocity. Each precisely calibrated sensor is flexible and robust with a low-profile configuration that allows minimally intrusive mounting throughout the peaks and valleys created by the PCB components. These systems require a PC to operate.

The TVS-1004 Series is Supplied with One Miniature Candlestick Sensor for Each Channel.



MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)		
Model No.	Price	Description
TVS-1004	\$3025	Scanner, 4 velocity/temperature sensors and software
TVS-1108	6791	Scanner, 8 velocity/temperature sensors and software (factory expandable)

Comes complete with calibrated sensors, scanner, analysis software, power cord and operator's manual.
Ordering Example: TVS-1004, 4-channel with velocity/temperature sensors, and software, \$3025.

Refrigerant Leak Detector

LDH-380
\$169



For Complete
Details Visit
[omega.com/
ldh-380](http://omega.com/ldh-380)

- ✓ Reference Leak Source Included
- ✓ Ambient Concentration Reset

LDH-380, \$169, with 39 cm (15") flexible stainless steel probe.

- ✓ Microprocessor Control with Advanced Digital Signal Processing
- ✓ Multi-Color Visual Display
- ✓ High-Low Leak Sensitivity Selector
- ✓ Semiconductor Gas Sensor
- ✓ Detection of R-134A, R-410A, R-407C and R22 Freon Gases

The LDH-380 refrigerant leakage detector is the perfect tool for maintaining the air-condition or a cooling system with compressor and refrigerant. This unit uses a newly developed semi-conductor sensor which is extremely sensitive to variety of general refrigerants.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
LDH-380	\$169	Handheld refrigerant leak detector

Comes complete with 4 "AA" alkaline batteries, operator's manual, leak check bottle and carrying case.
Ordering Example: LDH-380, refrigerant leak detector for R-134A, R410A, R-407C, and R22 Freon gas, \$169.



FLOW, LEVEL, AND ENVIRONMENTAL

To Order, Call **1-800-82-66342** or Shop Online at omega.com



Handheld Air Velocity/ Temperature Meter with **Wireless** Option

HHF1000 Series
Starts at
\$450



Optional

- ✓ Measures Air Velocities up to 5000 FPM (25.4 m/sec)
- ✓ Measures Air Temperature up to 250°C (121°F)
- ✓ 1.5% Full Scale Accuracy (Velocity)
- ✓ 0.5% Full Scale Accuracy (Temperature)
- ✓ Two Sensor Probe Configurations—Fixed Probe and Remote Telescopic Probe
- ✓ Hot Wire Air Velocity Sensor Design
- ✓ Economical 6 OD x 305 mm L (¼ x 12") Insertion Probe Design

Large, Easy to Read Backlit LCD

For Complete Details Visit omega.com/hhf1000

- ✓ Backlit LCD Displays Air Velocity and Air Temperature Simultaneously
- ✓ Air Velocity and Air Temperature Can be Displayed in Different Engineering Units
- ✓ Volume Air Flow Calculation



Remote telescopic probe adjustable from 305 to 914 mm L (12 to 36")

HHF1001B, \$480.

MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)			
Model No.	Price	Range FPM (m/sec)	Description
HHF1001R	\$480	0 to 5000 (0 to 25.4)	Air velocity/temperature meter, remote telescopic probe
HHF1001A-W*	495	0 to 5000 (0 to 25.4)	Air velocity/temperature meter, fixed probe, wireless

Comes complete with (12") long sensor probe (or remote telescopic probe), 9V lithium battery, USB cable, Windows based data logging software, and operator's manual.

* UWTC-REC1 wireless receiver is required for wireless PC interface.

Ordering Example: HHF1001A-W, wireless air velocity/temperature meter, 0 to 5000 FPM range, fixed probe, and UWTC-REC1 wireless receiver, \$495 + 225 = \$720.

Economical Air Flow Switch

FST1000 Series
Starts at
\$265



- ✓ Air Velocity Range up to 10,000 FPM (50.8 m/sec)
- ✓ 2% Full Scale Accuracy
- ✓ Two Sensor Probe Configurations—Fixed Probe and Remote Probe
- ✓ Hot Wire Air Velocity Sensor Design
- ✓ Adjustable High and Low Alarm Set-Points
- ✓ Two SPST Alarm Contact Closures with Red LED Indicators
- ✓ Used in HVAC Monitoring, Exhaust/Ventilation Hoods



Measuring air flow and providing relay output in a ventilation hood.

For Complete Details Visit omega.com/fst1000



FST1001A, \$265.

Terminal Connection

Thermal Flow Switches



FSW-420/30 Series
Starts at
\$325



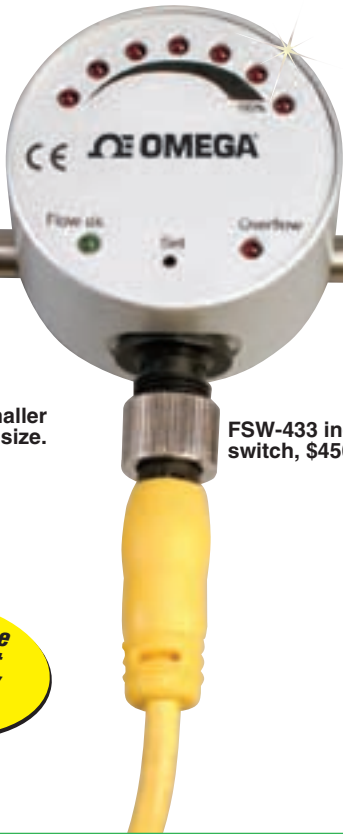
- ✓ Automatic Scaling and Setpoint
- ✓ No Moving Parts
- ✓ Pushbutton Re-Scaling if Needed
- ✓ Easy to Install

The FSW-420/30 Series monitors your relative flow rate for applications where the actual flow rate is not important. The FSW-420/30 series is easy to install and use. Just put it into the pipe and it's ready to go. The FSW-420/30 series sets your present flow-rate at 100% at power up. Relative flow rate is indicated by the 7 LED lights. When the flow rate drops to 50%, an alarm goes off. If you prefer, you can adjust the alarm point to fit your needs. A green output indicating LED is also included.



FSW-422
insertion style
switch, \$350.

Shown smaller
than actual size.



FSW-433 in-line
switch, \$450.

For Complete
Details Visit
[omega.com/
fsw-420_430](http://omega.com/fsw-420_430)

Electromagnetic Low Flowmeter

FMG70 Series
Starts at
\$1000



- ✓ No Moving Parts
- ✓ No Flow Obstructions
- ✓ Maintenance-Free
- ✓ Fast Response Time (< 500 ms)
- ✓ Minimal Straight Pipe Requirements

The FMG70 series from OMEGA is a trio of extremely compact, low cost, inductive magnetic flow sensors.

Changes of temperature, density, viscosity, concentration or electrical conductivity (minimum conductivity of 50 S/cm) of the fluid do not affect the output signal.



FMG71, \$1000, shown
smaller than actual size.

FMG70 series can be used in areas where flow sensors with moving parts cannot be applied due to contamination/particulate in the media.

The output signal frequency or current ("-A" models) is proportional to the flow.

FLOW, LEVEL, AND ENVIRONMENTAL

To Order, Call **1-800-82-66342** or Shop Online at omega.com



Micro-Flow Meter

For Complete Details Visit omega.com/ftb300_series

FTB300 Series Starts at **\$177**



FTB321D, \$278, shown smaller than actual size.

- ✓ NEMA 4X (IP56) Enclosure
- ✓ 6-Digit LCD
- ✓ Displays both Rate and Total
- ✓ Non-Volatile Programming and Total

The FTB300 Series of digital paddle wheels are an economical choice for low flow rate applications. They use Infra-red light beam technology. Available connections include 1/8 FNPT, 1/4 FNPT and 3/8" OD tube fittings. Six available flow ranges as low as 30mL/min to

7000 mL/min. Models without a display have a 5 Vdc current sinking pulse output. Units with displays have a 6-digit LCD, with up to 4 decimal positions that display both flow rate and total. All units include an open collector alarm output.

Transit-Time Ultrasonic Flowmeter

FDT-30 Series Starts at **\$1277**



For Complete Details Visit omega.com/fdt-30_series

- ✓ Compact Enclosure
- ✓ Large Digital Display
- ✓ 4 to 20 mA, TTL and Turbine Simulated Outputs
- ✓ Rate and Total Displays
- ✓ Clean Liquid Compatible

The FDT-30 Series provides easy and low cost installation by clamping to the outside of existing piping systems. Non-invasive transit time system allows solids to pass through the pipe with no affect on the meter. Y-strainers or filtering devices are not needed. Greater accuracy can be attained in

FDT-31, \$1277, shown smaller than actual size.



applications consisting of entrained gases. The FDT-30 Series will automatically correct displayed flow rates and electronic outputs. Direct interface is provided to data collection systems via 4 to 20 mA output and either TTL-pulse or simulated turbine meter outputs that are proportional to fluid flow rate. Designed to replace mechanical flowmeters in applications where liquid conditions tend to damage or impede

mechanical flow meter operation. No maintenance is required. The FDT-30 Series can be used on applications such as well water and other liquids with moderate amounts of suspended solids or aeration.

FDT-30 Series is housed in an enclosure suitable for outdoor mounting. Integral mount transducers are available for pipes 50 mm (2") and smaller.

Digital Paddlewheel Meters



FP2000 Series
Starts at
\$283



- ✓ ±2% Accuracy Digital Paddlewheel Technology
- ✓ Integral 6 Digit Display
- ✓ Models Available for Rate, Total or Rate and Total Flow
- ✓ For Pipe Sizes from 10 to 51 mm (3/8 to 2"), 0.4 to 200 GPM
- ✓ Long Life Battery Operation (Batteries Included)
- ✓ Low Pressure Drop Design
- ✓ Available with Polypropylene or PVDF Construction



FP2011-RT, \$503.

FP2004-RT, \$451.

Both models shown smaller than actual size.

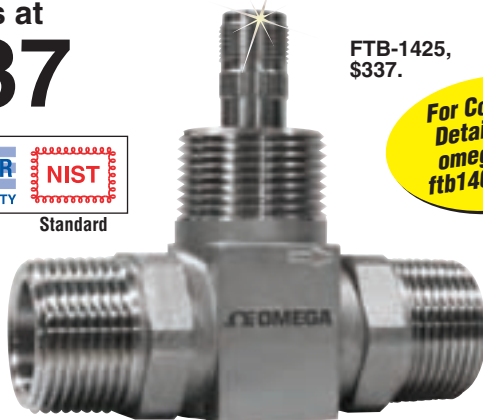
For Complete Details Visit omega.com/fp2000

The FP2000 Series is a family of economical paddlewheel sensors with integral 6-digit display. The FP2000-R models are rate indicators, while the FP2000-RT models indicate rate and total flow. Also available, the FP2000-T

display the total flow only. These units are battery power, with two "AAA" size batteries lasting up to a year. The FP2000 units feature a PVDF paddlewheel, with either polypropylene or PVDF piping.

Economical Liquid Turbine Flowmeters

FTB-1400 Series
Starts at
\$337



FTB-1425, \$337.

For Complete Details Visit omega.com/ftb1400_series

- ✓ Cost-Effective Solution for Turbine Flowmeter Applications
- ✓ Rugged 316 Stainless Steel Construction Offers Long Service Life in Severe Operating Environments
- ✓ Accurate and Repeatable Flow Measurement
- ✓ Installation in Pipe Sizes from 1/2 to 2"

Flow Monitor Digital Displays For FTB-1400 Series Turbines

FTB-1400-D
Starts at
\$333



FTB-1400-RD, \$352.

- ✓ Displays Rate and/or Total
- ✓ Large 8 Digit by 3/4" Display for Easy Viewing
- ✓ One "D" 1.5V Alkaline Battery (Included) for Up to 3 1/2 Years of Service
- ✓ User Friendly Front Panel Programming
- ✓ NEMA 4X (IP66) Enclosure
- ✓ Meter, Remote, or Swivel Mount Configurations

FLOW, LEVEL, AND ENVIRONMENTAL

To Order, Call **1-800-82-66342** or Shop Online at omega.com



Benchtop Dissolved Oxygen Kit

DOB21
\$1008



Hard carrying case, oxygen probe, cell maintenance kit, and BOD kit included.

For Complete Details Visit omega.com/dob21

- ✓ Scale Change in Auto-Range
- ✓ Auto Calibration of All Parameters
- ✓ Automatic Temperature Compensation
- ✓ Salinity and Barometric Pressure Compensation
- ✓ Data Logging up to 99 Points
- ✓ BOD Capability
- ✓ Zero and Span Auto Calibration
- ✓ RS232 Output

The DOB21 is a compact benchtop dissolved oxygen meter and a amperometric dissolved oxygen probe with automatic temperature compensation for field or laboratory applications.

The unit measures dissolved oxygen in ppm or percent saturation and temperature in degrees Celsius.

Programming is conveniently done via a three button keypad and stored in the non-volatile memory. The unit also includes an audible minimum and maximum alarm. The DOB21 kit is supplied with the dissolved oxygen probe, a cell maintenance kit, BOD kit and operator's manual all in a hard carrying case.



DOB21, \$1008, shown smaller than actual size.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
DOB21	\$1008	Benchtop dissolved oxygen kit

Comes complete with 1 dissolved oxygen probe, 1 cell maintenance kit, BOD kit, hard carrying case, 9V battery, and operator's manual.

Ordering Example: DOB21, dissolved oxygen kit, CDH-30PW, AC power adaptor, \$1008 + 65 = \$1073.

pH/mV Benchtop Meter

PHB21
\$660

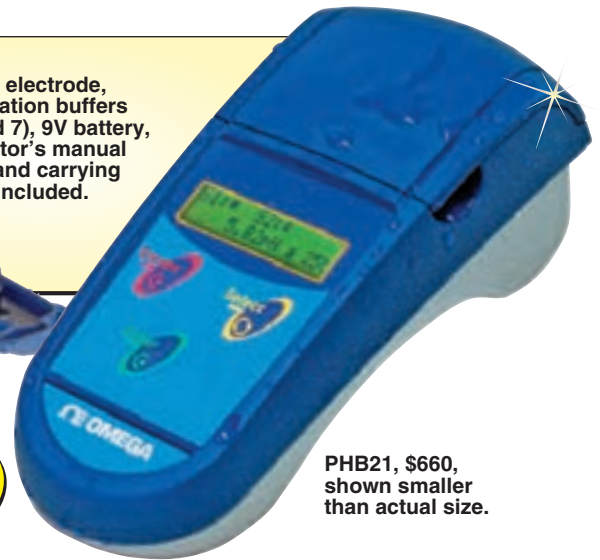


Glass electrode, calibration buffers (4 and 7), 9V battery, operator's manual (CD) and carrying case included.

For Complete Details Visit omega.com/phb21

- ✓ Automatic Resolution Selection
- ✓ Automatic Electrode Check
- ✓ Maximum and Minimum Audible Alarm
- ✓ Automatic Buffer Recognition
- ✓ 99 Points Data Logging
- ✓ RS232 Output for PC or Printer

The PHB21 is has a non-volatile memory (E2PROM), that stores your set-up values. Even under a loss of power condition your records are maintained. The menus are self-explanatory for easy operation and programmed from a simple 3-key face. The PHB21 benchtop meters also have advanced features like automatic electrode check and battery status displays. The displayed readings can be continuous, held or logged to memory. A user programmable audible alarm is included for minimum and maximum alerts.



PHB21, \$660, shown smaller than actual size.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
PHB21	\$660	Benchtop pH, mV and temperature meter

Comes complete with glass electrode, calibration buffers (4 and 7), 9V battery, operator's manual (CD) and carrying case.

Ordering Example: PHB21, benchtop PH, mV and temperature meter, CDH-30PW, 110/220 Vac power adaptor, \$660 + 65 = \$725.

Complete Water Treatment Controller Systems



CDCN13 Series
Starts at
\$2550



For Complete
Details Visit
omega.com/cdcn13

- ✓ Six Feed Programs for 4 Chemical Additives
- ✓ Water Test for Alkalinity and Hardness

Options Include:

- ✓ pH Control
- ✓ ORP Monitoring and Control
- ✓ 4 to 20 mA Analog Outputs
- ✓ RS485 Communications

The CDCN13 is a fully programmable controller designed for complete chemical automation (conductivity, pH and ORP) as well as control of chemical additives. This controller can easily handle cooling tower, boiler, industrial process water, food processing, drinking water and wastewater treatment applications. Engineering units can be displayed in either US or metric values using the 16-button

CDCN13, \$2550, shown smaller than actual size.

keypad and the large, 8-line LCD readout with simple scroll-through menus. The CDCN13 has 8 control relay outputs, for up to 4 chemical additives, fill valve, bleed valve, probe rinse, and remote alarm. Standard features also include dynamic probe failure testing for pH/ORP sensors, so the user can avoid dangerous out-of range conditions.



MOST POPULAR MODELS LISTED!

To Order (Specify Model Number)

Model No.	Price	Input	Communications
CDCN13	\$2550	Conductivity	RS232
CDCN13-PH-A	3750	Conductivity/pH	RS232, 4 to 20 mA

Comes complete with operator's manual and 3V lithium battery. Probes sold separately.

Note: When ordering the conductivity or pH controller, it is recommended to purchase pH buffer solution, such as PHA-7, pH buffer 7 and conductivity standard solution, such as CDSA-1413, 1413 µS/cm.

Ordering Example: CDCN13, conductivity controller, CDE10, conductivity sensor, CDSA-1413, conductivity standard solution, 1413 µS/cm, \$2550 + 285 + 23 = **\$2858**.

Toroidal Conductivity or Concentration Analyzer

CDCN442
\$925



For Complete
Details Visit
omega.com/cdcn442

- ✓ NEMA 4X (IP68)
- ✓ 2 x 16 Digit LCD Readout
- ✓ Assembly in 51 mm (2") Tube or Flat Surface or Panel 144 x 144 x 100 mm DIN (5.7 x 5.7 x 4")
- ✓ Simple 3 Key Operation
- ✓ Cell Check
- ✓ RS485 Output MODBUS® and Proprietary Communication Protocol

The CDCN442 toroidal conductivity system is designed for online monitoring of chemically aggressive process solutions, water applications that coat or foul traditional sensors, and plating bath operations in which high current densities are present. Typical applications include waste water treatment, power plants, thermo electric plants, pharmaceutical, photographic industries, soft drinks industries.



CDCN442, \$925, shown smaller than actual size.

CDE-442, \$660, shown smaller than actual size.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
CDCN442	\$925	Conductivity and concentration analyzer
CDE-442	660	Toroidal conductivity cell (1 required)
CDSA-10	50	10 µS conductivity solution

Comes complete with operator's manual, hardware for 51 mm (2") tube installation, and wall mount brackets (sensor sold separately).

Ordering Example: CDCN442, toroidal conductivity analyzer, and CDE-442, toroidal conductivity cell, \$925 + 660 = **\$1585**.



Visit omega.com/dilbert

for your daily dose of DILBERT!

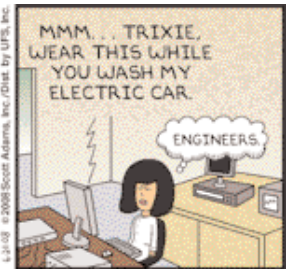
DILBERT® by Scott Adams

OMEGAFLEX® Peristaltic Pump and Pump Motor

FPU5-MT Series Starts at **\$125**



Visit omega.com/fpu500

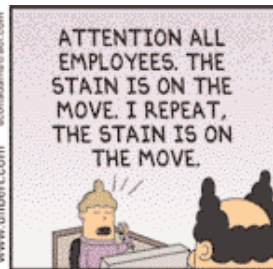


Litmustik® Pocket pH Testers with Replaceable Electrodes

PHH-3X Starts at **\$59⁵⁰**



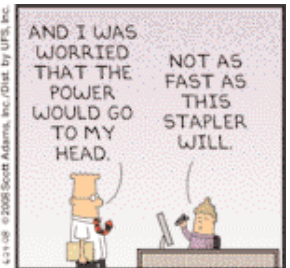
Visit omega.com/phh3x



pH/Temperature Circular Chart SUPERRECORDER™

CTXL-PH **\$795** All Models

Visit omega.com/ctxl



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PATENT PENDING

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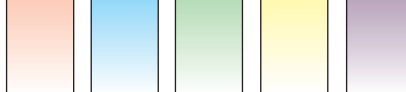
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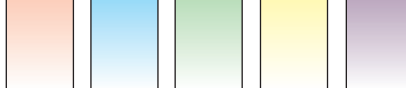


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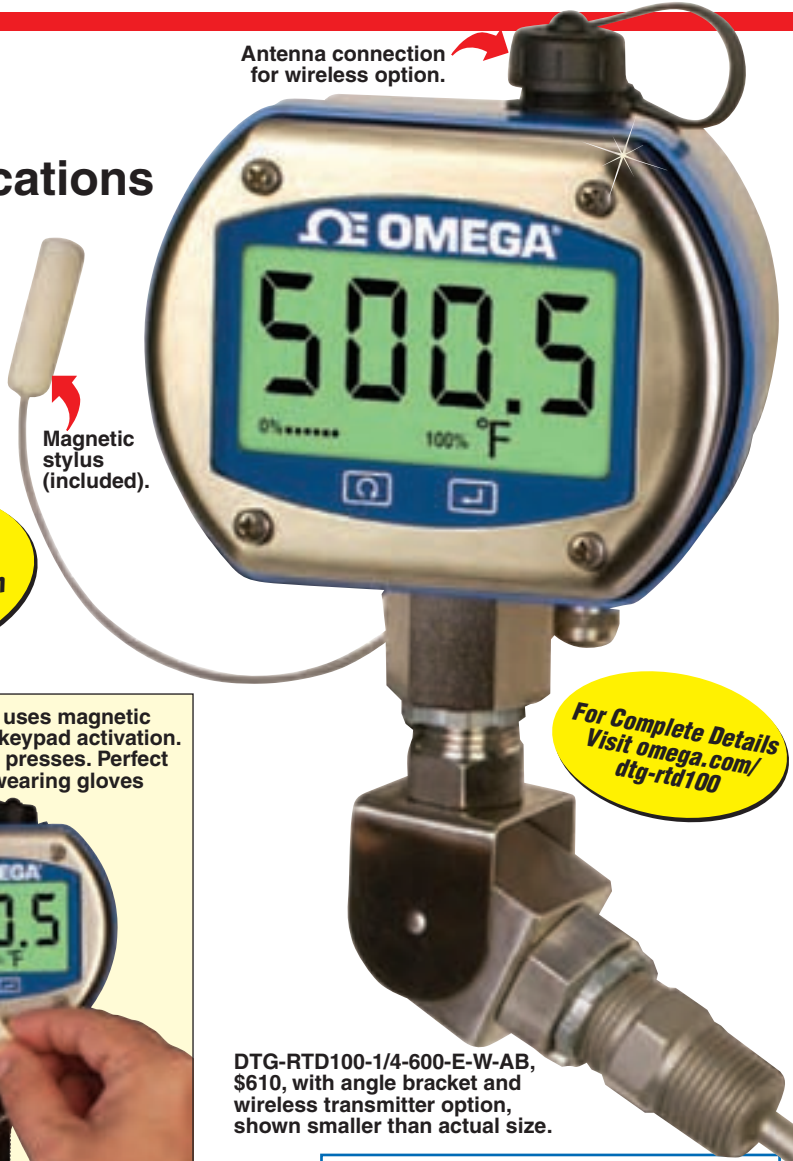
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