

Shortform Catalog



New Product Range
Inclinometer and
Slip Rings

V
W
mA
m/s
bar

It's your success that counts!

Since 1960 the Kübler name has stood for wide-ranging expertise in the field of sensors, counters and process technology. Shortly after our founder Fritz Kübler started his electronic devices company in his parents' house, it was those famous Swabian virtues, his "love of tinkering, for precision and a good job done" that soon brought him success with his counters and time meters in reputable machine building companies.

The company is still built on these values today - and also on that fact that this continuity is assured by a consistent line of succession in its ownership. So today the second generation of the family, his sons Gebhard and Lothar Kübler, now run the business.



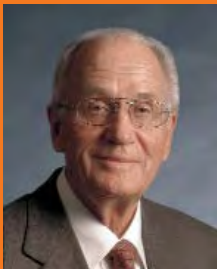
All over the world thousands of customers trust in our products and in our ability to provide solutions. We have built up a presence in over 50 countries on all five continents. The triad of Europe, USA and China is perfectly covered by daughter companies or strategic partners.

One thing above all others provides our motivation - to do more to ensure the success of our customers than they expect. This has helped us to double our turnover in just a few years. Companies that lead the world in their field now belong to our ever-growing list of customers. So, for example, we equipped the whole New York City subway with position sensors and we also supply miniature electro-mechanical counters to numerous manufacturers of kWh meters. Ford and Hyundai in Korea are increasingly using Kübler encoders in their logistics systems. We are also at home in the "Heavy Duty" area - for example we have equipped all the dock cranes in Los Angeles and San Francisco with the latest encoders.

How did we achieve this? Maybe because we are market leaders in the field of rotary sensor technology as well as in the display, detection and control of measurable variables. Maybe because we not only supply technically high-quality products but also provide personal support to our customers, helping them work out individual solutions. Or because we offer 95% delivery reliability and, if an urgent delivery is required, because we can manufacture your required product or a sample within 24 hours. Or because each year we invest 15% of our turnover in new products. Or maybe it is simply that there is an enthusiastic group of pleasant, friendly and flexible people at Kübler, always there to help you.

How can we serve you?

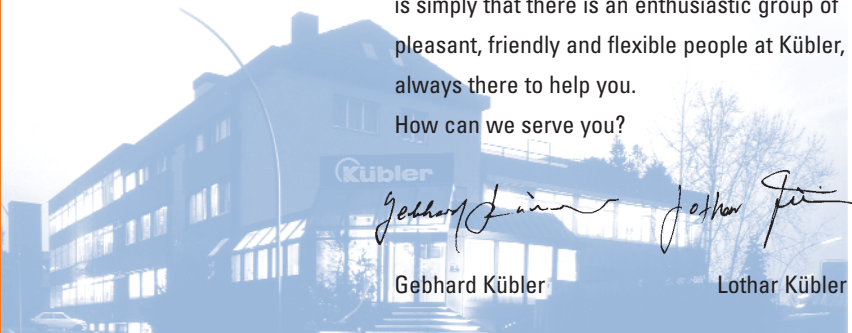
Our company founder
Dipl.-Ing. Fritz Kübler



It all started here ...



Our first product
- patented at that time:
The time meter



Kübler, your partner for

Position und motion sensors:

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Integrated Components. Off-the-Shelf Systems

Added value for our customers

We deliver not only individual devices and components, but also complete systems that the customer can integrate simply and quickly into his environment. This is why there is a wide choice of customized fixing solutions and connectors. In certain areas we have come up with specialized solutions, for example for geared motors, elevators or energy measurement.



Excellent service and customer proximity



Ongoing training increases competence.

Fast delivery, product quality that stands up to tough industrial usage, meeting deadlines, and the competence of our employees - that's what our customers in more than 50 countries rely on. If necessary, we process your order within 48 hours or deliver ex warehouse on the same day.

We make repairs and provide other services quickly in our new service centre.

A brand that can be trusted

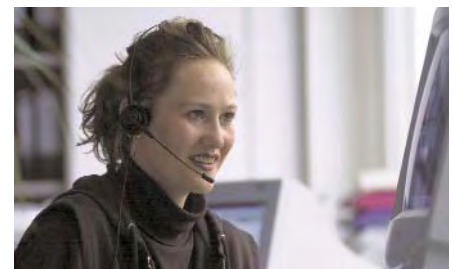
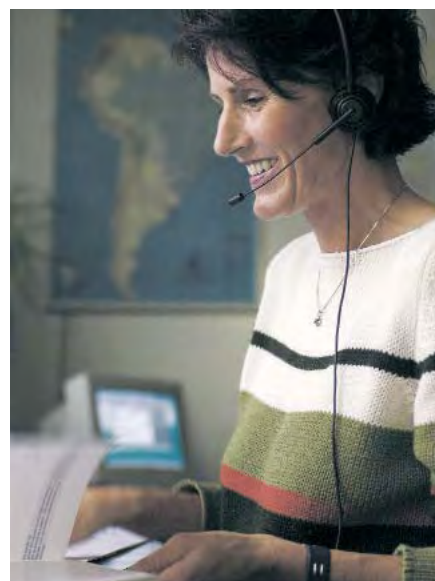
We enjoy working professionally for you. Our QA system, introduced in 1995, serves as the basis; it is certified in accordance with DIN ISO 9001 and is constantly being optimised.

All our products undergo a function test before being shipped. Our emphasis on high quality is underlined by our extended two-year warranty.

**Our order processing:
fast and simple.**

Knowledge and proficiency make for that competitive edge

In our training centre we provide our employees and sales partners with ongoing professional education, focussing on processes and products, on an increased awareness of customer needs as well as covering other topics



Our customer service: friendly and competent.

such as foreign languages, manufacturing technologies etc.

We have a good grasp of how to produce special versions as well as standard products, both quickly and economically. For this purpose we have brought in production lines and stand-alone production. Our manufacturing processes are highly accurate, so that adjustment of the glass disk in our encoders is just a matter of a few micrometers. In our assembly area we use the latest SMT and wave soldering machines. In our counter production we manufacture highly competitive quality products Made in Germany.

The Kübler Group – a global presence, on your doorstep



Our company is active in more than 50 countries – exports account for over 60% of our business.

We have our own subsidiaries in a number of countries, for example in China, France, India, Italy and Poland. In the USA we work with strategic partners.

In all other countries our products are sold via authorised distributors.

All these partners receive comprehensive ongoing training at our headquarters in Germany and are thus in a position to offer professional product solutions.

Approvals:

Many of our products are UL (Underwriters Laboratories Inc.) approved. Our products can also be supplied on request with EX approval for use in Hazardous Areas Zones 2 and 22. All new plant and equipment that is destined for use in explosion-protected areas must be installed according to

Germany: Fritz Kübler GmbH, Villingen-Schwenningen, with 10 sales offices

China: Kuebler (Beijing) Automation Trading Co. Ltd.

France: Fritz Kübler Sarl

India: Kuebler Automation India Pvt Ltd, production and service

Italy: Kübler Italia S.r.l.

Poland: Kubler Polska Sp. z o.o

World-wide: Exclusive representation and distributors in more than 50 countries

Kübler in the Internet:

www.kuebler.com

E-Mail: sales@kuebler.com

RoHS standards:

Kübler is active worldwide and has made a commitment to protecting the environment. Our products comply with the RoHS standards.



Incremental encoders

Meet the more stringent railway standards*



Version	Miniature Shaft 2400	Miniature Blind hollow shaft 2420	Economy ¹⁾ Shaft 3700	Economy ¹⁾ Hollow shaft 3720
Series				
Special features	Hollow shaft version - very small yet fully suited to industrial use		Low-cost compact encoder for resolutions up to 1024 ppr, Tubetech® cable outlet permits high constant load on the cable outlet. Version with through hollow shaft (8 mm)	
Mechanical characteristics				
Shaft/Hollow shaft ø [mm]	4/6	4/6	4 ... 8	4 ... 8
Housing dim. [mm]	ø24x20 or 30 x20	ø24x20 or 30 x20	ø 37 x 32 mm	ø 37 x 32 mm
Max. speed [min ⁻¹]	12000	12000	6000	6000
Max. shaft load rad./ax. [N]	20/10 at 2400	20/10 at 2400	20/10	20/10
Max. operating temp. [°C]	-20 ... +85	-20 ... +85	-20 ... +70	-20 ... +70
Max. protection to	IP 64 housing side	IP 64 housing side	IP 67 housing side	IP 67 housing side
Type of connection	Cable	Cable	Cable	Cable
Max. resolution [PPR]	1024	1024	1024	1024
Electrical characteristics				
Output	Push-pull	Push-pull	RS 422 or push-pull	RS 422 or push-pull
Supply voltage [V DC]	5 ... 24 or 8 ... 30	5 ... 24 or 8 ... 30	5 or 5 ... 30	5 or 5 ... 30
Max. pulse frequency [kHz]	160	160	250	250

* More stringent requirements compared with the EMC standard 89/336/EWG, described in EN 50121-3-2 and EN 61326-1



Version	Compact Shaft 3610	Compact Hollow shaft 3620	Universal, compact ¹⁾ Shaft Sendix Incremental 5000	Universal, compact ¹⁾ Hollow shaft Sendix Incremental 5020
Series				
Special features	Compact, low-cost, high performance data		Flange compatible with all 58 mm series. Tough, e.g. Safety-Lock™ design ensures solid bearing construction, compact design. Flexible, e.g. hollow shaft up to 15.7 mm; for temperatures down to -40 °C.	
Mechanical characteristics				
Shaft/Hollow shaft ø [mm]	4/5/6/ 1/4"	6/6.35/8	6 ... 12	6 ... 15,7
Housing dim. [mm]	ø36.5x35 or 36.5x31.5	ø36,5x31	ø 50 (58) x 53 mm	ø 50 (58) x 44 mm
Max. speed [min ⁻¹]	12000	12000	12000	12000
Max. shaft load rad./ax. [N]	40/20	—	80/40	—
Max. operating temp. [°C]	-20 ... +85	-20 ... +85	-40 ... +85	-40 ... +85
Max. protection to	IP 65 housing side	IP 65 housing side	IP 67	IP 67
Type of connection	Cable	Cable	Cable/Plug	Cable/Plug
Max. resolution [PPR]	2500	2500	5000	5000
Electrical characteristics				
Output	Push-pull	Push-pull	RS 422, push pull 7272 or push-pull	RS 422, push pull 7272 or push-pull
Supply voltage [V DC]	5 ... 24 or 8 ... 30	5 ... 24 or 8 ... 30	5 or 5 ... 30	5 or 5 ... 30
Max. pulse frequency [kHz]	200	200	300	300

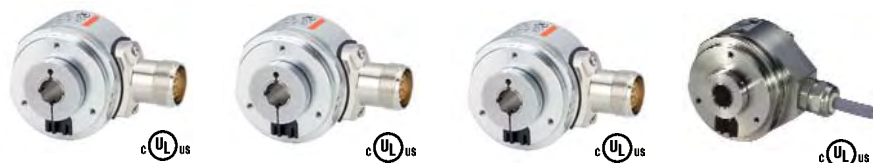
¹⁾ available as explosion proof zone 2 and 22

Incremental encoders/ industrial standard \varnothing 58 mm



Version	Universal Shaft	High temperature ¹⁾ Shaft	Sine wave ¹⁾ Shaft high resolution ²⁾	Economy ¹⁾ Shaft
Series	5800	5803	5804/5805	5810
Special features	many options, PUR cable	Operating temperature range up to 110 °C; TPE cable; options include MIL plugs and inch measurements.	5804: high quality sine wave signal 5805: high resolution up to 36,000 ppr.	Low-cost entry-level model for applications with limited resolution, very small installation depth
Mechanical characteristics				
Shaft/Hollow shaft \varnothing	[mm] 6 ... 10, 3/8"	[mm] 6 ... 10, 3/8"	[mm] 6 ... 10	[mm] 6/10
Housing dim.	[mm] \varnothing 58x66	[mm] \varnothing 58x66	[mm] \varnothing 58x66	[mm] \varnothing 58x41.5
Max. speed	[min ⁻¹] 12000	[min ⁻¹] 12000	[min ⁻¹] 12000	[min ⁻¹] 6000
Max. shaft load rad./ax.	[N] 80/40	[N] 80/40	[N] 80/40	[N] 80/40
Max. operating temp.	[°C] -20 ... +90*	[°C] -20 ... +110	[°C] -20 ... +90	[°C] -20 ... +75
Max. protection to	IP 65	IP 65	IP 65	IP 64
Type of connection	Cable/Plug	Cable/Plug	Cable/Plug	Cable/Plug
Max. resolution	[PPR] 5000	[PPR] 5000	[PPR] 5000 ¹⁾ 36000 interpol. ²⁾	[PPR] 1024
Electrical characteristics				
Output	RS 422 or push-pull	RS 422 or push-pull	Sine wave 1 Vpp ¹⁾ RS 422 o. push-pull ²⁾	Push-pull
Supply voltage	[V DC] 5,5 ... 30 or 10 ... 30	[V DC] 5 or 10 ... 30	[V DC] 5 or 10 ... 30	[V DC] 10 ... 30
Max. pulse frequency	[kHz] 300	[kHz] 300	[kHz] 180	[kHz] 100

¹⁾ 5804
²⁾ 5805



Version	Universal 5820 ¹⁾	Hollow shaft, ¹⁾ universal	Hollow shaft, ¹⁾ sine wave , high res	Hollow shaft, ¹⁾ Stainless steel (Niro)
Series	5820	5823	5824/5825	5826
Special features	wide variety of fixing options	High temperature version with TPE cable	High quality sine wave signal; High resolution up to 36,000 ppr.	Stainless steel housing; sea water version on request
Mechanical characteristics				
Shaft/Hollow shaft \varnothing	[mm] 6/8/14/15	[mm] 6/8/10/12/14/15	[mm] 6/8/10/12/14/15	[mm] 10/12
Housing dim.	[mm] \varnothing 58x41.5	[mm] \varnothing 58x41.5	[mm] \varnothing 58x41.5	[mm] \varnothing 58x41.5
Max. speed	[min ⁻¹] 12000	[min ⁻¹] 12000	[min ⁻¹] 12000	[min ⁻¹] 12000
Max. shaft load rad./ax.	[N] —	[N] —	[N] —	[N] —
Max. operating temp.	[°C] -20 ... +90 ²⁾	[°C] -20 ... +110	[°C] -20 ... +90	[°C] -20 ... +90
Max. protection to	IP 66	IP 66	IP 66	IP 66
Type of connection	Cable/Plug ³⁾	Cable/Plug	Cable/Plug	Cable
Max. resolution	[PPR] 5000	[PPR] 5000	[PPR] 5000 ²⁾ 36000 interpolated ³⁾	[PPR] 5000
Electrical characteristics				
Output	RS 422 or push-pull	RS 422 or push-pull	Sine wave 1 Vpp ²⁾ RS 422 or push-pull ³⁾	RS 422 or push-pull
Supply voltage	[V DC] 5.5 ... 30 or 10 ... 30	[V DC] 5.5 ... 30 or 10 ... 30	[V DC] 5 or 10 ... 30	[V DC] 5.5 ... 30 or 10 ... 30
Max. pulse frequency	[kHz] 300	[kHz] 300	[kHz] 180 ²⁾ , 800 ³⁾	[kHz] 300

¹⁾ available as explosion proof zone 2 and 22

²⁾ 5824
³⁾ 5825

Incremental encoders



Version	Magnetic measuring system LINES RI20/LI20 Magnetic sensor with magnetic ring	Heavy duty model ¹⁾ large hollow shaft 9000	Stainless steel with shaft (Niro) ¹⁾ 9000 NIRO	Ex-proof shaft, hollow shaft 7030 <i>Atex-approved</i>
Special features		Extended axial and radial load	Suitable for food processing and chemical industries	Very compact Ex II 2G EEx d II C T6 and Ex II 2D IP6x T85°C
Mechanical characteristics				
Shaft/Hollow shaft ø	[mm] up to 30 mm	12	12	12
Housing dim.	[mm] 16 mm x 10 mm	ø 90x90	ø 90x102	ø70x94
Max. speed	[min ⁻¹] 6000	6000	6000	6000
Max. shaft load rad./ax.	[N] —	140/70	140/70	20/10 (Shaft)
Max. operating temp.	[°C] -20 ... 80 °C	-20 ... +90	-20 ... +85	-20 ... +60
Max. protection to	IP67	IP 66	IP 66	IP 64
Type of connection	Cable: PUR	Cable/Plug	Cable	Cable
Max. resolution	[PPR] 3600	5000	5000	5000
Electrical characteristics				
Output	RS 422 or push-pull	RS 422 or push-pull	RS 422 or push-pull	RS 422 or push-pull
Supply voltage	[V DC] 4.8 ... 30 V DC	5 or 10 ... 30	5 or 10 ... 30	5 or 10 ... 30
Max. pulse frequency	[kHz] 163	300	300	300



Version	Large hollow shaft up to 42 mm ¹⁾ A020	Heavy Duty Modell Large hollow shaft up to 42 mm ¹⁾ A02H
Special features	For medium loads, hollow shaft up to 42 mm dia., installation depth only 43 mm, wide variety of fixing options	Rugged: balanced stainless-steel clamping rings, special bearing-shaft connection increases stability and vibration resistance, economic alternative to traditional heavy duty encoders that are often over-engineered and expensive. Versatile due to compact size. Optional isolating inserts.
Mechanical characteristics		
Shaft/Hollow shaft ø	[mm] up to 42	up to 42
Housing dim.	[mm] ø100x43	ø100x50
Max. speed	[min ⁻¹] 1500	6000
Max. shaft load rad./ax.	[N] —	—
Max. operating temp.	[°C] -20 ... +75	-20 ... +60
Max. protection to	IP 65	IP 65
Type of connection	Cable/Plug	Cable/Plug
Max. resolution	[PPR] 5000	5000
Electrical characteristics		
Output	RS 422, push-pull, sine wave	RS 422 or push-pull sine wave
Supply voltage	[V DC] 5 or 10 ... 30	5 or 11 ... 24
Max. pulse frequency	[kHz] 300	50

Isolating inserts
The isolating insert provides galvanic isolation between the encoder and the motor shaft and prevents current flowing via the motor and encoder bearings. We also supply isolated tether arms specially adapted to these applications.

Absolute encoders/Singleturn



Version	Singleturn Miniature 2450	Singleturn Miniature 2470	Singleturn Sendix absolut ¹⁾ 3650	Singleturn Sendix absolut ¹⁾ 3651
Series				
Special features	New encoder generation with magnetic sensor element	New encoder generation with magnetic sensor element	New encoder generation with magnetic sensor element	New encoder generation with magnetic sensor element
Mechanical characteristics				
Shaft/Hollow shaft \varnothing [mm]	4, 5, 6	4, 6	6/ 1/4" / 8	6/ 1/4" / 8
Max. housing dim.. [mm]	\varnothing 24x24	\varnothing 24x29	\varnothing 36x42	\varnothing 36x42
Max. speed [min ⁻¹]	12000	12000	6000	6000
Max. shaft load rad./ax. [N]	10/20	—	40/20	40/20
Max. operating temp. [°C]	-20 ... +90	-20 ... +90	-40 ... +85	-40 ... +85
Max. protection to	IP 64	IP 64	IP 67	IP 67
Type of connection	Cable	Cable	Plug/Cable	Plug/Cable
Electrical characteristics				
Max. resolution	4096 (12 Bit)	4096 (12 Bit)	512 (9 Bit)	4096 (12 Bit)
Version	Singleturn	Singleturn	Singleturn	Singleturn
Interface	SSI	SSI	SSI	analog
Type of code	Gray	Gray		
Supply voltage [V DC]	5 or 8 ... 30	5 or 8 ... 30	5 ... 30	18 ... 30

Absolute encoders/Singleturn



Version	Singleturn Sendix absolut 3658	Singleturn Sendix absolut ¹⁾ 3670	Singleturn Sendix absolut ¹⁾ 3671	Singleturn Sendix absolut 3678
Series				
Special features	New encoder generation with magnetic sensor element	New encoder generation with magnetic sensor element	New encoder generation with magnetic sensor element	New encoder generation with magnetic sensor element
Mechanical characteristics				
Shaft/Hollow shaft \varnothing [mm]	6/ 1/4" / 8	6/ 1/4" / 8 / 10	6/ 1/4" / 8 / 10	6/ 1/4" / 8
Max. housing dim.. [mm]	\varnothing 36x42	\varnothing 36x48	\varnothing 36x48	\varnothing 36x42
Max. speed [min ⁻¹]	6000	6000	6000	6000
Max. shaft load rad./ax. [N]	40/20	—	—	40/20
Max. operating temp. [°C]	-40 ... +85	-40 ... +85	-40 ... +85	-40 ... +85
Max. protection to	IP 67	IP 67	IP 67	IP 67
Type of connection	Plug/Cable	Plug/Cable	Plug/Cable	Plug/Cable
Electrical characteristics				
Max. resolution	16384 (14 Bit)	512 (9 Bit)	4096 (12 Bit)	16384 (14 Bit)
Version	Singleturn	Singleturn	Singleturn	Singleturn
Interface	CANopen Encoder	SSI	analog	CANopen Encoder
Type of code	Profile DS 406 V3.1			Profile DS 406 V3.1
Supply voltage [V DC]	8 ... 30	5 ... 30	18 ... 30	8 ... 30

¹⁾ available as explosion proof zone 2 and 22

Absolute encoders/Singleturn



Version	Singleturn Sendix absolut 5853	Singleturn Universal, shaft ¹⁾ 5850	Singleturn Parallel model ¹⁾ 5852	Singleturn Sendix absolut 5858
Series	5853	5850	5852	5858
Special features	with SinCos or incremental track New encoder generation with Safety-Lock™ design and new Opto-ASIC	Patented Integrative Technology® construction offers 3 to 5 times higher shock resistance (250g) than is standard in the market The encoders are equipped with various control inputs.		New encoder generation with Safety-Lock™ design and new Opto-ASIC
Mechanical characteristics				
Shaft/Hollow shaft ø [mm]	6/10/ 1/4" / 3/8"	6/10	6/10	6/10/ 1/4" / 3/8"
Max. housing dim.. [mm]	ø 58x38	ø 58x66	ø 58x66	ø 58x50
Max. speed [min ⁻¹]	12000	12000	12000	9000
Max. shaft load rad./ax. [N]	80/40	80/40	80/40	80/40
Max. operating temp. [°C]	-40 ... +90	-20 ... +90	-20 ... +90	-40 ... +90
Max. protection to	IP 67	IP 65	IP 65	IP 67
Type of connection	Plug/Cable	Plug/Cable	Plug/Cable	Plug/Cable
Electrical characteristics				
Max. resolution	131072 (17 Bit)	16384 (14 Bit)	16384 (14 Bit)	65536 (16 Bit)
Version	Singleturn	Singleturn	Singleturn	Singleturn
Interface	SSI, BISS with SinCos	Parallel, 4 ... 20 mA	Parallel	Profibus, CANopen, EtherCat
Type of code	Binary, Gray	Gray, Binary, BCD	Gray or Gray-Excess	
Supply voltage [V DC]	5 or 10 ... 30	5 or 10 ... 30	5 or 10 ... 30	10 ... 30

Absolute encoders/Singleturn



Version	Singleturn Sendix absolut 5873	Singleturn ¹⁾ universal model, hollow shaft 5870	Singleturn ¹⁾ hollow shaft parallel model 5872	Singleturn Sendix absolut 5878
Series	5873	5870	5872	5878
Special features	with SinCos or incremental track New encoder generation with Safety-Lock™ design and new Opto-ASIC	patented Integrative Technology® construction offers 3 to 5 times higher shock resistance (250g) than is standard in the market .		New encoder generation with Safety-Lock™ design and new Opto-ASIC
Mechanical characteristics				
Shaft/Hollow shaft ø [mm]	10 ... 15	6/8/10/12	10/12	10 ... 15
Max. housing dim.. [mm]	ø 58x38	ø 58x41,5	ø 58x41,5	ø 58x55
Max. speed [min ⁻¹]	9000	6000	6000	9000
Max. shaft load rad./ax. [N]	—	—	—	80/40
Max. operating temp. [°C]	-40 ... +90	-20 ... +90	-20 ... +90	-40 ... +80
Max. protection to	IP 67	IP 66	IP 66	IP 67
Type of connection	Plug/Cable	Plug/Cable	Plug/Cable	Plug/Cable
Electrical characteristics				
Max. resolution	131072 (17 Bit)	16384 (14 Bit)	16384 (14 Bit)	65536 (16 Bit)
Version	Singleturn	Singleturn	Singleturn	Singleturn
Interface	SSI, BISS incl. SinCos	SSI or Parallel	Parallel	CANopen Encoder
Type of code	Binary, Gray	Gray, Binary, BCD	Gray or Gray-Excess	Profile DS 406 V3.1
Supply voltage [V DC]	5 or 10 ... 30	5 or 10 ... 30	5 or 10 ... 30	10 ... 30

Absolute encoders/Singleturn



Version	Singleturn ATEX-approved ¹⁾ shaft 7031	Singleturn ATEX-approved ¹⁾ hollow shaft 7031	Singleturn ¹⁾ stainless steel (Niro) Hollow shaft 5876	Connection technology
Series				
Special features	<i>Atex-approved</i>	<i>Atex-approved</i>	Very compact ExII2GExdIICT6 and ExII2DIP6xT85°C	Encoders and connection technology from a single source
Mechanical characteristics				
Shaft/Hollow shaft ø [mm]	12/—	— /12	10/12	Please enquire about our wide range of connection technology: <ul style="list-style-type: none"> • connectors • cable assemblies • M12 technology • Profibus, CANopen and DeviceNet connection technology • M23x1, MIL and Right-angle-plugs
Max. housing dim.. [mm]	ø 70x94	ø 70x94	ø 58	
Max. speed [min ⁻¹]	6000	6000	6000	
Max. shaft load rad./ax. [N]	20/10	—	—	
Max. operating temp. [°C]	-20 ... +70	-20 ... +70	-20 ... +80	
Max. protection to	IP 64	IP 64	IP 66	
Type of connection	Plug/Cable	Plug/Cable	M12 Plug/Cable	
Electrical characteristics				
Max. resolution	16384 (14 Bit)	16384 (14 Bit)	16384 (14 Bit)	
Version	Singleturn	Singleturn	Singleturn	
Interface	SSI, Parallel, 4 ... 20 mA	SSI, Parallel, 4 ... 20 mA	SSI or Parallel	
Type of code	Gray, Binary, BCD	Gray, Binary, BCD	Gray, Binary, BCD	
Supply voltage [V DC]	5 or 10 ... 30	5 or 10 ... 30	5 or 10 ... 30	

Absolute encoders/Multiturn



Version	Multiturn Sendix absolut 5863	Multiturn, shaft programmable 5862 ¹⁾	Multiturn, Fieldbus shaft, blind hollow shaft 5860 ¹⁾	Multiturn Sendix absolut 5868
Series				
Special features	<i>with SinCos or incremental track</i>	Patented Intelligent-Sensing-Technology I-S-T®: high EMC characteristics for highly dynamic applications; patented Integrative Technology® offers 3 to 5 times higher shock resistance (up to 250g)		Geared Multiturn Safety-Lock™ bearing design and new OptoASIC
Mechanical characteristics				
Shaft/Hollow shaft ø [mm]	6/10/ 1/4" / 3/8"	6/10	6/10	6/10/ 1/4" / 3/8"
Max. housing dim.. [mm]	ø 58x49.5	ø 58x66	ø 60x88	ø 58x70
Max. speed [min ⁻¹]	12000	6000	6000	9000
Max. shaft load rad./ax. [N]	80/40	80/40	80/40	80/40
Max. operating temp. [°C]	-40 ... +90	-20 ... +80	-10 ... +80	-40 ... +80
Max. protection to	IP 67	IP 65	IP 65 (IP 66 on requ.)	IP 67
Type of connection	Plug/Cable	Cable/Plug	Cable, M12-connector ²⁾	Plug/Cable
Electrical characteristics				
Max. resolution	17 x 12 Bit progr.	13 x 12 Bit progr.	13 x 12 Bit	65536 (16 bit)
Version	Multiturn	Multiturn	Multiturn/Binary	Multiturn
Interface	SSI, BISS with SinCos	SSI, RS 485, AWG-pr.	DeviceNet	CAN/CANlift, Profibus, EtherCAT
Type of code	Gray or Binary	Gray or Binary		
Supply voltage [V DC]	10 ... 30	5 ... 30	10 ... 30	10 ... 30

¹⁾ available as explosion proof zone 2 and 22

Absolute encoders/Multiturn



New



New



EtherCAT
PROFINET
CANopen
CANlift

Version	Multiturn, hollow shaft, programmable 5882 ¹⁾	Multiturn Sendix absolut 5883	Multiturn Sendix absolut 5888
Series			
Special features			
Mechanical characteristics			
Shaft/Hollow shaft ø [mm]	10/12	10 ... 15	10 ... 15
Max. housing dim.. [mm]	ø 58x40,5	ø 58x56	ø 58x58,5
Max. speed [min ⁻¹]	6000	9000	9000
Max. shaft load rad./ax. [N]	—	—	—
Max. operating temp. [°C]	-20 ... +90	-40 ... +90	-40 ... +80
Max. protection to	IP 65	IP 67	IP 67
Type of connection	Cable/Plug	Plug/Cable	Plug/Cable
Electrical characteristics			
Max. resolution	13 x 12 Bit progr.	17 bit x 12 bit progr.	65536 (16 bit)
Version	Multiturn	Multiturn	Multiturn
Interface	SSI, RS 485, AWG-pr.	SSI, BISS	CANopen/ CANlift
Type of code	Gray or Binary	Binary, Gray	Profibus/ EtherCAT
Supply voltage [V DC]	5 ... 30	10 ... 30	10 ... 30

Absolute encoders/Multiturn



PROFINET
CANopen
DeviceNet

Version	Multiturn, hollow shaft or shaft progr. 9081 ¹⁾	Multiturn, Fieldbus shaft ¹⁾ 9080
Series		
Special features		
Mechanical characteristics		
Shaft/Hollow shaft ø [mm]	bis 28	12/hollow shaft 12 ... 28
Max. housing dim.. [mm]	ø 90x50	ø 90x60
Max. speed [min ⁻¹]	6000	6000
Max. shaft load rad./ax. [N]	—	80/40
Max. operating temp. [°C]	-20 ... +80	-10 ... +80
Max. protection to	IP 65	IP 65 (IP 66 on requ.)
Type of connection	Plug	Cable or M12 connect ²⁾
Electrical characteristics		
Max. resolution	13 x 12 Bit progr.	13 x 12 Bit
Version	Multiturn	Multiturn/Binary
Interface	SSI, RS 485, AWG-Pr.	Profibus DP/CANopen/
Type of code	Gray or	DeviceNet
Supply voltage [V DC]	5 ... 30	10 ... 30

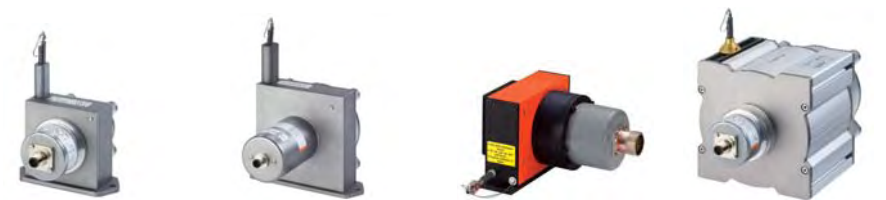
¹⁾ available as explosion proof zone 2 and 22

Linear measurement systems



Version	Linear measurement system	Linear measurement system	Miniature draw-wire sensor with encoder	Draw-wire sensor
Series	LIMES LI20/B1 Magnetic sensor with magnetic band Up to 25 m/s	LIMES LI50/B2 Magnetic sensor with magnetic band Large distance between band and sensor possible	analog Compact	A50 Draw-wire sensor for high acceleration and traverse speed
Mechanical characteristics				
Measuring range [mm]	up to 50 000	up to 50 000	up to 2000	up to 1250
Resolution [mm]	0.01	0.005	0.1	0.05
Dimensions	10 x 25 x 40	10 x 25 x 40	40 x 40 x 55	50 x 50
Temperature range [°C]	-20 ... +80	-20 ... +80	-10 ... +80	-20 ... +85
Materials				
Housing	Zink die-cast	Zink die-cast	Plastic reinforced	Titanium anodised Al.
Wire	–	–	Steel wire	Stainless-steel wire
Suitable encoders/interfaces	Push-pull, RS422	Push-pull, RS422	Encoder (2400) or potentiometer	Incr. encoder 3610 or analogue output: 0 ... 10 V, 4 ... 20 mA, potentiometer

Linear measurement systems



Version	Draw-wire sensor	Draw-wire sensor	Draw-wire sensor for encoders	Draw-wire sensor
Series	B80 Draw-wire sensor for high acceleration and traverse speed	C120 Draw-wire sensor for high acceleration and traverse speed	For standard applications	D135 Draw-wire sensor for high acceleration and traverse speed
Mechanical characteristics				
Measuring range [mm]	up to 3000	up to 6000	up to 6000	up to 40 000
Resolution [mm]	0.05	0.08	0.1	0.08
Dimensions	80 x 80	120 x 120	105 x 115	135 x 135
Temperature range [°C]	-20 ... +85	-20 ... +85	-20 ... +80	-20 ... +85
Materials				
Housing	Titanium anodised Al.	Titanium anodised Al.	Al	Titanium anodised Al.
Wire	Stainless-steel wire	Stainless-steel wire	Steel wire, Paraleine	Stainless-steel wire
Suitable encoders/interfaces	Incr. encoders Abs. encoders Fieldbus encoders Analogue output	Incr. encoders Abs. encoders Fieldbus encoders Analogue output	Incr. encoders Abs. encoders Fieldbus encoders	Incr. encoders Abs. encoders Fieldbus encoders Analogue output

Length measuring kits/



Inclinometer



Version Series Special features	Length measuring kits With rack & pinion or measuring wheels. With encoder holding device for optimum contact pressure of the encoder.	Inclinometer IS 40 For measuring 2 dimensional inclinations $\pm 60^\circ$
	Mechanical characteristics Temperature range [°C] -20 ... +70 °C	-20 ... +70 °C
Materials	Measuring wheels: Plastic or Al Rack: steel	Plastic PBT-GF20-VO
Suitable encoders/interfaces	Depends on encoder used	Analogue output: 4 ... 20 mA 0.1 ... 4.9 V

Transmission technology



Version Series Special features	Slip ring SR060 Compact, for the transmission of load current and signals from a stationary to a rotating platform. Up to 240 V and 16 A, max. 500 rpm, Operating temperature 0 ... 70 °C Service life exceeds 500 million revolutions Protection rating IP50	Slip ring SR085 Rugged, Safety-Trans™-design for the transmission of load current and signals from a stationary to a rotating platform. Up 240 V and 16 A, max. 800 rpm, Operating temperature 0 ... 80 °C Service life exceeds 500 million revolutions Protection rating IP50	LWL-Modul Optical fibre module LWL Safe signal transmission up to 1000 m. Input frequency up to 400 kHz. Input level 10 – 30 V or RS 422. Temperature range -10 ... +60 °C. Optical transmission rate 120 Mbit/s. Inverted input signals. Resists extremely strong electromagnetic fields.	Connection technology Encoders and connection technology from a single source. Large selection of connectors and cable by the metre. Please enquire about our wide range of connection technology: <ul style="list-style-type: none"> • connectors • cable assemblies • M12 technology • Profibus, CANopen and DeviceNet connection technology • M23x1, MIL and Right-angle-plugs
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Accessories



Couplings



Mounting brackets for hollow-shaft encoders



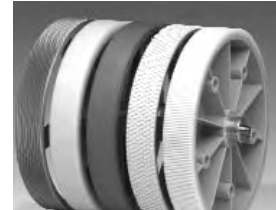
Flange adapters/Eccentric fixings



SSI-display 571/position display 570



Accessories for draw wire encoders



Measuring wheels

Absolute Multiturn Encoders from Kübler – mechanical or electrical ?



Characteristics	Geared Multiturn Sendix [®] absolut	Electronic Multiturn
For use near to strong magnetic fields, e.g. for geared motors with brake	Very good: Sendix absolut encoders are 100% resistant to magnetic fields. They succeed against other geared solutions, which to some extent use magnetic sensor technology. No battery required!	Limited: Because of magnetic sensitive parts (as is common with encoders with electronic multiturns).
High dynamic – high precision feedback	Very good: Highly deterministic and fast, allow feedback cycle times < 20 µs, sine/cosine outputs as option.	Good: With optional incremental tracks A/B.
Outdoor applications Wet environment	Very good: Sendix absolut up to IP 67.	Good: Up to IP 65.
Very high or low temperatures e.g. outdoor applications	Very good: Sendix absolut for a wide temperature range of -40 °C until 90 °C.	Good: -20°C ... +80 °C.
Limited space Large hollow shaft	Good: Sendix absolut is the first encoder on the market to offer a through hollow shaft up to 14 mm or blind hollow shaft solutions up to 15 mm. This offers space-saving possibilities.	Very good: Integrative and Intelligent Sensing Technology permits hollow shafts up to 28 mm or the slimmest multiturn encoder on the market, with an installation depth from only 42 mm with through hollow shaft.
Safety critical equipment	Very good	Limited: To some extent mechanical gears are prescribed.
Programmability	Limited: Resolution Single-turn, Offset, Code direction, configuration by factory (configuration software in preparation).	Very good: Full range scaleable and additional features like 4 programmable outputs (with EzTurn).
Set Up	Very good: SET-Push button and Status-LED facilitate the set up locally, additional DIR- and SET-Inputs.	Good: SET- and DIR-Inputs.

Electromechanical micro counters



Version	Micro	Micro	Micro	Micro
Series	K 46/K 47	K 66/K 67	K 04/K 05/AK 05	K 06/K 07/AK 07
Special features	Shock resistant miniature counters, low power consumption, various models, e.g. for panel-, PCB and base mounting. Suitable for soldering and wash-down (IP 65). For kWh applications, medical equipment, alarm systems, battery-powered units, fuel pumps ...			
Technical data	High shock resistance	100% resistant to shock and magnetic fields	High shock resistance	High shock resistance
Number of digits	6/7	6/7	4/5	6/7
Digit height, visible [mm]	1.7 x 4/1.2 x 4	1.7 x 4/1.2 x 4	1.7 x 4/ 1.2 x 4	1.7 x 4/1.2 x 4
Panel cut-out [mm]	e.g. 27 x 14	e.g. 27x 14	e.g. 24 x 13	e.g. 30 x 13
Type of mounting	Panel/PCB mount	Panel/PCB mount	Panel/base mount PCB	Panel/base mount PCB
Max. protection	up to IP 65	up to IP 65	up to IP 65	up to IP 65
Pulse voltage min/max.	1.5 V ... 24 VDC	1.5 V ... 24 VDC	3 V ... 24 VDC 24 V ... 230 VAC	3 V ... 24 VDC 24 V ... 230 VAC
Max. count frequency [Hz]	10	10	25	25
Min. power consumption [mW]	70	70	50	50

Electromechanical standard counters



Version	DIN-rail	Mini	Mini	Mini
Series	SK 06.1/SK 07.1	W 15/AW 15	W 16/AW 16	W 17
Special features	Pulse counter for DIN rail mounting, high shock resistance	Miniature pulse counter for OEM applications. Various housing sizes and mounting options		
Technical data				
Number of digits	7	5	6	7
Reset	no	yes	no	no
Digit height, visible [mm]	1.7 x 4/1.2 x 4	1.7 x 4	1.7 x 4	1.7 x 4
Panel cut-out [mm]	–	45 x 22 / 31 x 20	45 x 22 / 31 x 20	45 x 22 / 38 x 24
Type of mounting	DIN-rail	Panel/base mount PCB	Panel/base mount PCB	Panel/base mount PCB
Max. protection	IP 50 front side	IP 41	IP 41	IP 41
Pulse voltage min/max. [V DC]	12 / 24	12 / 24	12 / 24	12 / 24
[V AC]	24 / 230	24 / 230	24 / 230	24 / 230
Max. count frequency [Hz]	25	10	10	10
Min. power consumption [mW]	50	130	50	50

Electromechanical standard counters



Version	Industry standard	Industry standard	Industry standard	Industry standard
Series	BK 14	BK 16	B 15 / B 16	B 18
Special features	Rugged counters with up to 6 digits, with or without manual reset		Rugged counters with up to 8 digits, can be combined with preset counters, BVa, HVa and MVs 36 series	
Technical data				
Number of digits	4	6	5/6	8
Reset	yes	no	yes	no
Digit height, visible [mm]	2 x 4	2 x 4	2.4 x 4.5 / 2 x 4.5	2 x 4
Panel cut-out [mm]	33.3 x 25	33.3 x 25	50 x 25	50 x 25
Type of mounting	Panel mount	Panel mount	Panel mount	Panel mount
Max. protection	IP 41	IP 41	IP 41	IP 41
Pulse voltage min/max. [V DC]	12 / 24	12 / 24	12 / 24	12 / 24
[V AC]	24 / 230	24 / 230	24 / 230	24 / 230
Max. count frequency [Hz]	25	25	25	25
Min. power consumption [mW]	1000	1000	1000	1000

Electromechanical standard counters



Version	Industry standard	Industry standard	Industry standard
Series	MK 14	MK 16 / MK 18	E 16
Special features	Rugged counters with up to 8 digits, with or without manual reset/electrical reset		Rugged counter with metal housing
Technical data			
Number of digits	4	6/8	6
Reset	yes	yes/no	yes
Digit height, visible [mm]	4	4	4
Panel cut-out [mm]	33.3 x 22	33.3 x 22/48 x 24	48 x 27
Type of mounting	Panel mount	Panel mount	Panel mount
Max. protection	IP 41	IP 41/IP52	IP 41
Pulse voltage min/max. [V DC]	12 / 24	12 / 24	12 / 24
[V AC]	24 / 230	24 / 230	24 / 230
Max. count frequency [Hz]	25	25	25
Min. power consumption [mW]	1000	1000	2000

Pneumatic display counters



Version	Industry standard	Industry standard	Industry standard
Series	PMK 14	PMK 16	PMK 18
Special features	Pneumatic counters, suitable for Ex hazardous areas, simple application in pneumatic equipment, with or without reset. Long-life membrane operation; no leakage		
Technical data			
Number of digits	4	6	8
Reset	yes	yes	no
Digit height, visible [mm]	4	4	4
Panel cut-out [mm]	33.3 x 22	48 x 24	48 x 24
Type of mounting	Panel	Panel	Panel
Max. protection	IP 41	IP 41	IP 52
Max. count frequency [Hz]	17	50	50
Min. power consumption [mW]	1.5 - 8	1.5 - 8	1.5 - 8

Electromechanical/ with 2 functions



Version	Cyclometer display for Energy meters	Combination with hour meter and pulse counter	Combination Time and energy meter
Series	KWH 17	HC 77/SHC 77	HW 66 **
Special features	Stepper motor driven* for mounting in kWh meters, shielded against magnetic effects, low power consumption	Pulse and hours-run meter in one unit	Energy and hour meter in one device
Technical data			
Number of digits	7	7 / 8	2 x 6
Reset	no	no	no
Max. count frequency [Hz]	5 x 3	0.01 ... 99 999.99 h	0.1 ... 99 999.9 h
Digit height, visible [mm]	—	4 x 1.7	4 x 1.7
Dimensions [mm]	57 x 30 x 32.5	DIN 48 x 48	DIN 48 x 48
Panel cut-out [mm]	—	□ 46	□ 45+0,6
Type of mounting	Base mount	Panel mount, DIN-rail	Panel mount
Max. protection	—	IP 52 front side	IP 65 front side
Min. power consumption [mW]	0.025	1 / 3	-
Pulse voltage min/max. [V DC]	5 / 10	16 ... 130	-
[V AC]	—	20 ... 264	115 / 230

* Temperature range
-40 ... +90 °C

** with function indicator

CODIX - Series 13x



Version	LCD-Panel mount	LCD-Panel mount	LCD-Panel mount	LCD-Panel mount
Series	CODIX 130	CODIX 131	CODIX 132	CODIX 133
Special features	Low-cost compact LCD counter, battery-powered (service life > 8 years), count inputs for mechanical contacts or AC/DC voltage pulses. All models have screw terminals (5 mm raster), optional backlighting, high count speeds, customized versions possible.			
Function				
Totaliser	yes	yes	–	–
Differential/ up-down counter	–	yes	–	–
Up/down counter*	–	yes *	yes	–
Position display	–	–	–	yes
Technical data				
Number of digits	8	8	8	8
Reset	manual / electric	manual / electric	manual / electric	manual / electric
Digit height [mm]	8	8	8	8
Max. protection	DIN 48 x 24	DIN 48 x 24	DIN 48 x 24	DIN 48 x 24
Dimensions [mm]	IP 65 front side	IP 65 front side	IP 65 front side	IP 65 front side
Panel cut-out [mm]	45 x 22	45 x 22	45 x 22	45 x 22
Max. count frequency [Hz]	12 000	12 000	30	6 000
Power supply	Lithium battery	Lithium battery	Lithium battery	Lithium battery
Count inputs	NPN/PNP 10 ... 260 V AC/DC	NPN/PNP 10 ... 260 V AC/DC	10 ... 260 V AC/DC	NPN/PNP

* only version with npn / pnp

CODIX - Series 52x



Version	LED-Panel mount	LED-Panel mount	LED-Panel mount	LED-Panel mount
Series	CODIX 140/142	CODIX 520/521 ... 524	CODIX 52P	CODIX 52U
Special features	CODIX 140: Standard, count input up to 8 kHz CODIX 142: Service counter with blinking text message and signal output for service.	New models expand the field of applications for these compact, powerful LED counters, tachometers and timers. 60 kHz count frequency makes it possible to use these products with encoders, even at high speeds.		
Function			Positions display and tachometer	Multifunction device with dual functions
Pulse counter	yes	CODIX 520/521/524	–	2 pulse counters, pulse counter and timer, pulse and frequency meter or 2 timers.
Position display for encoders	–	CODIX 521/524	yes **	
Frequency meter/Tachometer	–	CODIX 522/524	yes **	
Timer	–	CODIX 523/524	–	
Technical data				
Number of digits	7, scaleable	6	6	6
Reset	manual / electric	manual / electric	manual / electric	manual / electric
Digit height, visible [mm]	8	8	8	8
Dimension [mm]	DIN 48 x 24	DIN 48 x 24	DIN 48 x 24	DIN 48 x 24
Panel cut-out [mm]	45 x 22	45 x 22	45 x 22	45 x 22
Max. protection	IP 65 front side	IP 65 front side	IP 65 front side	IP 65 front side
Max. count frequency [Hz]	8 000	60 000	30 000	60 000
Power supply [V DC]	10 ... 30	10 ... 30	10 ... 30	10 ... 30
Inputs	NPN/PNP	NPN/PNP	NPN/PNP	NPN/PNP
Outputs	CODIX 141: yes	optional: Optocoupler	–	–

** separate Inputs for frequency and position

CODIX - Series 54x



Version Series	LED-Panel mount CODIX 540	LED-Panel mount CODIX 541 ... 544	LED-Panel mount CODIX 54P	LED-Panel mount CODIX 54U
Special features	A re-design and new models expand the field of applications for these compact, powerful LED counters, tachometers and timers. 60 kHz count frequency makes it possible to use these products with encoders, even at high speeds.			
Function			Position display and tachometer	Multifunction device with dual functions
Pulse counter	yes	CODIX 541/544	–	2 pulse counters, pulse counter and timer, pulse and frequency counter or 2 timers.
Position display for Encoders	–	CODIX 541/544	yes*	
Frequency meter/Tachometer	–	CODIX 542/544	yes*	
Time	–	CODIX 543/544	–	
Technical data				
Number of digits	6	6	6	6
Reset	manual / electric	manual / electric	manual / electric	manual / electric
Digit height [mm]	14	14	14	14
Dimensions [mm]	DIN 96 x 48	DIN 96 x 48	DIN 96 x 48	DIN 96 x 48
Panel cut-out [mm]	92 x 45	92 x 45	92 x 45	92 x 45
Max. protection	IP 65 front side	IP 65 front side	IP 65 front side	IP 65 front side
Max. count frequency [Hz]	60.000	60.000	30.000	60.000
Supply voltage [V DC]	10 ... 30	10 ... 30	10 ... 30	10 ... 30
[V AC]	90 ... 260	90 ... 260	90 ... 260	90 ... 260
Inputs Schmitt-Trigger	NPN/PNP	NPN/PNP	NPN/PNP	NPN/PNP
Outputs	–	optional: Optocoupler	–	–

*separate inputs for frequency and position

Electronic count modules



Version Series	LCD-count module 192	LCD-count module 166 / 167 / 168	LCD-count module 180
Special features	6 digit, count frequency up to 100 Hz	LCD panel mount module for OEM pulse counter applications such as portable test equipment (with or without battery supply), current consumption < 10 µA	
Technical data			
Number of digits	6	4 / 6 / 6	8
Count mode	add.	add./add./add.-sub.	add./sub.
Reset	Electrical	Electrical	Manual / Electrical
Height of figures [mm]	5	6	8
Dimensions [mm]	ca. 32 x 19	31 x 24	47 x 21
Panel cut-out [mm]	–	29.4 x 22	–
Type of mounting	PCB mount	Panel/PCB mount	Panel/PCB mount
Max. protection	–	IP 40	–
Max. count frequency [Hz]	100	18 / 10 000 / 10 000	10 000
Power supply	4,5 ... 28	Battery ¹⁾ 2,6 ... 3,4 ²⁾	2,4 ... 3,2

¹⁾ 166
²⁾ 167/168

Multifunction displays



New

Version	LED Panel mount SSI-display Type 570	LED Panel mount Multifunction-display Type 571	LED Panel mount Position/ Difference counter Type 572
Series			
Special features	SSI-clock frequency up to 1 MHz, master or slave mode Position display in conjunction with absolute encoders with SSI interface	Fast count input for our LIMES system programmable: speed, rotational speed, count and timer functions	Fast count input for our LIMES system 2 separate count inputs 4 control inputs
Technical data			
Number of digits	6	6	6
Height of figures [mm]	15	15	15
Panel cut-out [mm]	92 x 45	92 x 45	92 x 45
Max. protection	IP 65 front side	IP 65 front side	IP 65 front side
Max. count frequency [Hz]	1 MHz dat freq.	100.000 Hz at count	1.000.000 at count
Supply voltage [V DC]	17 ... 30	16 ... 35	16 ... 35
[V AC]	115/230	115/230	24
Inputs	2	2	4
Outputs	Scaleable analogue output or 2 optocoupler with tracking preset or RS 232/485 interface		4 solid-state outputs RS232 interface Opt. analogue output

Preset counters multifunction



New

3 Year warranty
Standard/Maintenance contracts
Made in Germany by Kübler

Version	LCD-Panel mount 901	LCD-Panel mount 903 / 904	LCD-Panel mount 923 / 924	LED Panel mount CODIX 716 / 717
Series				
Special features	Simple, low-cost, very easy to programme using decade keyboard, alternative to electro-mechanical counters	Multifunction preset counters as pulse counters, position indicators, frequency displays, preset timers or elapsed time meters	Multifunction preset counter with pulse counter, position display, frequency display, tachometer, preset timer or short time meter	Multifunction preset counter with pulse counter, position display, frequency display, tachometer, preset timer or short time meter
Technical data				
Number of digits/display	6	6	2 x 6	6
Dimensions [mm]	DIN 48 x 48	DIN 48 x 48	DIN 48 x 48	DIN 48 x 48
Panel cut-out [mm]	45 x 45	45 x 45	45 x 45	45 x 45
Max. protection	IP 65 front side	IP 65 front side	IP 65 front side	IP 65 front side
Max. count frequency [Hz]	25	10.000	55.000	20.000
Supply voltage [V DC]	Battery (8 Years)	11 ... 30	10 ... 30	10 ... 30
[V AC]	–	90 ... 260	90 ... 260	90 ... 260
Presets	1	903: 1 / 904: 2	903: 1 / 904: 2 ... 6	716: 1 / 717: 2
Outputs	Relay	Relay or Optocoupler	Relay or Optocoupler	Relay or Optocoupler
Inputs	count, reset and program disable inputs 12 ... 250 V AC/DC	2 count inputs, gate, reset and program disable inputs.	2 count inputs, gate, reset, lock, MPI, many expansion options	2 count inputs, gate and mode type input, optional Ex version or interfaces

Preset counters multifunction/electromechanical

New



Version	LED Panel mount Multifunction counter Type 571	LED Panel mount Position/ Difference counter Type 572	Electromechanical adding, panel mount Bva 15	Electromechanical, panel mount Mvs 13/16
Series				
Special features	Fast count input for our LIMES system	Fast count input for our LIMES system	Preset can be changed during operation, plug-in version available, easy operation, various front bezel sizes	
Technical data	programmable: counter and position indicator, speed, rotational speed, time functions and reciprocal speed	2 separate count inputs 4 control inputs	adding	subtracting
Number of digits	6	6	Version with 3 or 5	3 / 6
Height of figures [mm]	15	15	Counter: 4.5 Present: 4	4
Panel cut-out [mm]	92 x 45	92 x 45	50 x 50	50x33.3 / 50x50
Max. Protection	IP 65 front side	IP 65 front side	–	–
Max. count frequency [Hz]	100.000 at count	100.000 at count	25	25
Supply voltage [V DC]	16 ... 35	16 ... 35	12 ... 115	12 ... 230
[V AC]	115/230	24	24/230	24/230
Presets	2	4	1	1
Outputs	Scaleable analogue output or 2 optocoupler outputs, programmable as limits or RS232 or 485 interface	4 solid-state outputs RS 232 interface Optional analogue output	Microswitch with changeover contact	Microswitch with changeover contact

Hour meters electromechanical



Version	Miniature	Miniature	Miniature DIN-Rail	Panel mount
Series	HK 46 / HK 47	HK 07 / HK 07 D *	AHK 07 / SHK 07	HK 17
Special features	Shock resistant miniature hour meter for installation in control panels, on PCBs or for DIN-rail mounting. Various models, IP65 (PCB versions can be soldered and washed down). For applications in technical equipment (medical apparatus, UV-lamps) and in industrial applications.			Rugged miniature counter with synchro/stepper motor, various front plate sizes
Technical data				
Number of digits	6 / 7	7	7	7/8
Digit height, visible [mm]	1.7 x 4 / 1.25 x 4	1.2 x 4	1.2 x 4	1.7 x 3.8
Dimensions [mm]	30 x 20 / 30 x 34	32 x 15	45 x 14 / 65 x 30	33 x 22
Panel cut-out [mm]	27 x 14	30 x 13	–	–
Viewing angle	Panel mount, PCB	Panel mount	Base mount/DIN rail	Panel mount
Type of mounting	IP66	up to IP 65	up to IP 65	IP 65 front side
Max. protection	82 / 135	82 / 135	82 / 135	500 / 750
Voltage ranges [V DC]	4.5 ... 35	4.5 ... 35	4.5 ...35	10 ... 130
[V AC]	–	–	20 ... 264 (SHK)	20 ... 440

* Disable input: measuring of hours run with short on-times < 36 s

Hour meters electromechanical



Version Series	Panel mount H 37	Panel mount H 37S	Panel mount H 57 / AH 57	Panel mount H 57S
Special features	.FA low cost, stepper-motor driven hour meters for panel/base mount. Quiet motor running even after >8 years thanks to special motor technology.			
Technical data			short panel mount depth, adapters for □ 55; □ 72 u. ø 72	short panel mount depth, adapters for □ 55; □ 72 u. ø 72
Number of digits	7/8	7/8	7/8	7/8
Time range	0.01 – 99 999.99 h	0.01 – 99 999.99 h	0.01 – 99 999.99 h	0.01 – 99 999.99 h
Digit height, visible [mm]	1.7 x 4	1.7 x 4	1.7 x 4	1,7 x 4
Dimensions [mm]	DIN 48 x 24 / 53 x 28	DIN 48 x 24 / 53 x 28	DIN 48 x 48	DIN 48 x 48
Panel cut-out [mm]	45 x 22 / 50 x 25	45 x 24 / 50 x 25	□ 46 / ø 50.5	□ 46 / ø 50.5
Viewing angle	Panel mount	Panel mount	Panel, PCB mount	Panel, PCB mount
Type of mounting				
Max. protection	IP 65 front side	IP 65 front side	up to IP 65 front side	up to IP 65 front side
Min. power consumption [W/VA]	0.5 / 1.2	0.5 / 1.2	0.5 / 1.65	0.5 / 1.65
Voltage ranges [V DC]	10 ... 130	10 ... 30	10 ... 130	10 ... 30
[V AC]	20 ... 264	187 ... 264/100 ... 130	20 ... 440	187 ... 264/100 ... 130

Hour meters electromechanical



Version Series	Panel mount HR 76	Panel mount HB 26 / HB 27	For DIN-rail SH 17
Special features	Shock-resistant round hour meter, IP 65	with reset, plug-in version available HB 27 without reset	Double module width with easy connections
Technical data			
Number of digits hour meter	6	6/7	7
Time range	0.1 – 99 999.9 h	0.01 – 99 999.99 h	0.01 h – 99 999.99 h
Number of digits adding counter	1.8 x 3.5	4.5	1.5 x 3.5
Digit height, visible [mm]	ø 58.7 und ø 71.1	different versions	90 x 36
Panel cut-out [mm]	ø 50.5	50 x 25	–
Type of mounting	Panel mount	Panel mount	DIN-rail
Max. protection	IP 65 from all sides	IP 41 front side	IP 65 front side
Min. power consumption [W/VA]	0.08 / 0.4	0.5 / 1.2	1 / 2.5
Voltage ranges [V DC]	10 ... 80	10 ... 115	10 ... 27
[V AC]	115 / 230	20 ... 440	230

Electromechanical/ with 2 functions



New



MID approval pending

Version	Combination with hour meter and pulse counter HC 77/SHC 77	Combination Time and energy meter HW 66 **
Series	HC 77/SHC 77	HW 66 **
Special features	Pulse and hours-run meter in one unit.	Energy and hour meter in one device
Technical data		
Number of digits hour meter	7 / 8	2 x 6
Reset	no	no
Time range	0.01 ... 99 999,99 h	0.1 ... 99 999.9 h
Digit height, visible [mm]	4 x 1.7	4 x 1.7
Dimensions	DIN 48 x 48	DIN 48 x 48
Panel cut-out [mm]	□ 46	□ 45 ^{+0,6}
Type of mounting	Panel mount, DIN rail	Panel mount
Max. protection	IP 52 front side	IP 65 front side
Min. power consumption [W/VA]	1 / 3	-
Voltage ranges [V DC]	10 ... 130	-
[V AC]	20 ... 264	115 / 230

** with function indicator

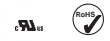
Hour meters electronic LCD



Version	LCD Panel mount	LCD Panel mount	LCD-Panel mount	LCD-count modul
Series	CODIX 134	CODIX 135	CODIX 141/143	198
Special features	Low cost, battery-powered LCD timer. Screw terminals. IP 65. Optional backlighting. Inputs: PNP, NPN or 10 ... 260 V AC/DC		CODIX 141: Timer CODIX 143: Service timer with blinking text message and signal output for service.	PCB mount module with wide temperature range -40 ... +85 °C, high shock resistance
Technical data				
Number of digits	7	8	7 with run indicator	6
Time range	0.01 h; h.min	0.1s h.min.s	99999.99	99999.9 h*
Reset	Manual	Manual	Manual	Electrical
Digit height, visible [mm]	8	8	8	5
Dimension [mm]	DIN 48 x 24	DIN 48 x 24	DIN 48 x 24	ca. 32 x 19
Panel cut-out [mm]	45 x 22	45 x 22	45 x 22	-
Max. protection	IP 65 front side	IP 65 front side	IP 65 front side	-
Type of mounting	Panel mount	Panel mount	Panel mount	PCP mount
Voltage range [V DC]	Lithium-Battery (service life >8 years)	Lithium-Battery (service life >8 years)	10 ... 30	4.5 - 28

** with function indicator

Electronic LED



Version Series	LED Panel mount CODIX 523/524	LED Panel mount CODIX 52U	LED Panel mount CODIX 543/544	LED Panel mount CODIX 54U
Special features	523: Timer optional: optocoupler 524: Multifunction Timer, frequency meter, pulse counter or position indicator	Universal device for dual functions 2 pulse counters, pulse counter & time meter, pulse counter & frequency meter or 2 timers	543: Timer optional: optocoupler 544: Multifunction timer, frequency meter, pulse counter or position indicator	Universal device for dual functions 2 pulse counters, pulse counter & time meter, pulse counter & frequency meter or 2 timers
Technical data				
Number of digits	6	6	6	6
Time range	sec, min, h or hh.mm.ss	sec, min, h or hh.mm.ss	sec, min, h or hh.mm.ss	sec, min, h or hh.mm.ss
Digit height, visible [mm]	8	8	14	14
Dimensions [mm]	DIN 48 x 24	DIN 48 x 24	DIN 96 x 48	DIN 96 x 48
Panel cut-out [mm]	45 x 22	45 x 22	92 x 45	92 x 45
Max. protection	IP 65 front side	IP 65 front side	IP 65 front side	IP 65 front side
Type of mounting	Panel mount	Panel mount	Panel mount	Panel mount
Voltage range [V DC]	10 ... 30	10 ... 30	10 ... 30	10 ... 30
[V AC]	–	–	90 ... 260	90 ... 260
Inputs Schmitt-Trigger	NPN/PNP	NPN/PNP	NPN/PNP	NPN/PNP

Time preset counters electronic



Version Series	LCD-Panel mount 903 / 904	LCD-Panel mount 923 / 924	LED Panel mount CODIX 716 / 717
Special features	Multifunction preset counter as pulse counter, position display, frequency display, preset timer or short time meter.	Multifunction preset counter with pulse counter, position display, frequency display, tachometer, preset timer or short time meter	Multifunction preset counter with pulse counter, position display, frequency display, tachometer, preset timer or short time meter
Technical data			
Number of digits	6	2 x 6	6
Dimensions [mm]	DIN 48 x 48	DIN 48 x 48	DIN 48 x 48
Panel cut-out [mm]	45 x 45	45 x 45	45 x 45
Max. protection	IP 65 front side	IP 65 front side	IP 65 front side
Count frequency max. [Hz]	s. min. h or hh. mm. ss	s. min. h or hh. mm. ss	s. min. h or hh. mm. ss
Power supply [V DC]	11 ... 30	10 ... 30	10 ... 30
[V AC]	90 ... 260	90 ... 260	90 ... 260
Presets	903: 1 / 904: 2	923: 1 / 924: 2 ... 6	716: 1 / 717: 2
Output	Relay or Optocoupler	Relay or Optocoupler	Relay or Optocoupler
Input	2 count inputs, gate, reset and key lock input	2 count inputs, gate, reset, lock, MPI, many expansion options	2 count inputs, gate and mode type input, optional Ex version or interfaces

New

3 Jahre (3 years) Gewährleistung / Warranty Made in Germany by Kuebler

Time preset counters electronic/electromechanical

Time relay / Timer



Version	LED Panel mount Multifunction counter Typ 571	Electromechanical HVa 15	Time relay LCD 910
Series	Typ 571	HVa 15	910
Special features	Fast count input for our LIMES Display programmable as: Rotary speed, tachometer, counter and stop-watch function	Low-cost preset counter for simple time measurement	Can be used for ON/OFF Delay, clock-pulse generator, 3 control modes (level, edge, edgetrig.), thus 24 programmable operation are possible
Technical data			
Number of digits	6	5	5
Reset	Electrical	Manual	manual / electrical
Digit height, [mm]	15	Con: 4.5 / Pres: 4	6.5/3.5
Panel cut-out, [mm]	92 x 45	50 x 50	45 x 45
Max. protection	IP 65 front side	IP 42 front side	IP 65 front side
Time range	0.001 s ... 99.59.59 h	0.01 h ... 999.99 h	0.01 h ... 999.99 h
Power supply [V DC]	16 ... 35	10 ... 130	Replaceable lithium battery
[V AC]	115/230	20 ... 264	
Presets	2	1	1
Outputs	Scalable analogue output or 2 solid-state outputs as limit or RS 232 or RS 485	Microswitch with changeover contact	Relay

Tachometers LCD and LED



Version	LCD Panel mount CODIX 136	LED Panel mount CODIX 522/524	LED Panel mount CODIX 52U	LED Panel mount CODIX 52P
Series	CODIX 136	CODIX 522/524	CODIX 52U	CODIX 52P
Special features	Easy to operate frequency indicator, direct display in Hz	522: Tachometer 524: Multifunction as tachometer, pulse counter, timer, position display	Universal device for dual functions 2 pulse counters, pulse counter & time meter, pulse counter & frequency meter or 2 timers	Position display and tachometer/frequency display, separate inputs
Technical data				
Number of digits	8	6	6	6
Digit height, [mm]	8	8	8	8
Dimensions, [mm]	DIN 48 x 24	DIN 48 x 24	DIN 48 x 24	DIN 48 x 24
Panel cut-out, [mm]	45 x 22	45 x 22	45 x 22	45 x 22
Max. protection	IP 65 front side	IP 65 front side	IP 65 front side	IP 65 front side
Max. count frequency, [kHz]	12	60	60	30
Measurement principle	Gate time	Gate or time interval	Gate or time interval	Gate or time interval
Measuring period or gate time	1/sec	1/sec or 1/min	1/sec or 1/min	1/sec or 1/min
Power supply [V DC]	Lithium-Battery	10 ... 30	10 ... 30	10 ... 30
[V AC]				
Input Schmitt-Trigger	NPN/PNP	NPN/PNP	NPN/PNP	NPN/PNP

Tachometer



Version Series	LED Panel mount CODIX 542/544	LED Panel mount CODIX 54U	LED Panel mount CODIX 54P
Special features	542: Tachometer 544: Multifunction as tachometer, pulse counter, timer, position display	Universal device for dual functions 2 pulse counters, pulse counter & time meter, pulse counter & frequency meter or 2 timers	Tachometer and position display with separate inputs
Technical data			
Number of digits	6	6	6
Digit height [mm]	14	14	14
Dimensions [mm]	DIN 96 x 48	DIN 96 x 48	DIN 96 x 48
Panel cut-out [mm]	92 x 45	92 x 45	92 x 45
Max. protection	IP 65 front side	IP 65 front side	IP 65 front side
Count frequency max. [kHz]	60	35	30
Measurement principle	Gate or time interval	Gate or time interval	Gate or time interval
Measuring period or gate time	1/sec or 1/min	1/sec or 1/min	1/sec or 1/min
Power supply [V DC]	10 ... 30	10 ... 30	10 ... 30
[V AC]	90 ... 260	90 ... 260	90 ... 260
Input Schmitt Trigger	NPN/PNP	NPN/PNP	NPN/PNP

Tachometer with limits

New

3 years warranty
Made in Germany by Kübler



Version Series	LCD Panel mount 923 / 924	LCD Panel mount 903/904	LED Panel mount CODIX 716 / 717 *	LED Panel mount Multifunction display 571
Special features	Multifunction preset counter with pulse counter, position display, frequency display, tachometer, preset timer or short time meter	Multifunction as tachometer, timer or preset pulse counter 903: 1 limit 904: 2 limits	Multifunction as tachometer, timer and preset counter	Multifunction as frequency display, frequency from run/operation time, position display or timer
Technical data				
Number of digits	2 x 6	6	6	6
Digit height [mm]	-	Counter: 9; Preset: 7	8	15
Dimensions [mm]	DIN 48 x 48	DIN 48 x 48	DIN 48 x 48	DIN 96 x 48
Panel cut-out [mm]	45 x 45	45 x 45	45 x 45	92 x 45
Max. protection	IP 65 front side	IP 65 front side	IP 65 front side	IP 65 front side
Count frequency max. [kHz]	55	10	20	25
Measurement principle	Time interval	Gate time	Time interval ¹⁾	Time interval ¹⁾
Measuring period or gate time	1/sec or 1/min	0,01 ... 99,99 sec	1/sec or 1/min	Programmable as required
Power supply [V DC]	10 ... 30	11 ... 30	10 ... 30	16 ... 35
[V AC]	90 ... 260	90 ... 260	90 ... 260	115/230
Input/Output	2 count inputs, gate, reset, lock, MPI, many expansion options	2 count inputs, gate, reset and key-lock input	2 count inputs, gate and mode type input	2 count inp., Reset, 2 Optocoupler or Analogue inputs or RS232/485 output

* available as explosion proof zone 2 and 22

¹⁾ or Gate time

Position displays LCD/LED



Version Series	LCD Panel mount CODIX 133	LED Panel mount CODIX 521	LED Panel mount CODIX 524	LED Panel mount CODIX 52P
Special features	Easy to operate position indicator; direct display of encoder pulses	Position indicator with multiplying and dividing factor, set value and faster speed	Combination device with position indicator, pulse counter, frequency meter and timer function	Position indicator and Tachometer with separate scalable inputs
Technical data				
Number of digits	8	6	6	6
Digit height [mm]	8	8	8	8
Dimensions [mm]	DIN 48 x 24	DIN 48 x 24	DIN 48 x 24	DIN 48 x 24
Panel cut-out [mm]	45 x 22	45 x 22	45 x 22	45 x 22
Max. protection	IP 65 front side	IP 65 front side	IP 65 front side	IP 65 front side
Count frequency max. [kHz]	6	25 (Quad mode)	25 (Quad mode)	15 (Quad mode)
Counting mode	Single and dual evaluation	Single, dual, quadruple evaluation direction or differential mode	Single, dual, quadruple evaluation direction or differential mode	Single, dual, quadruple evaluation direction or differential mode
Power supply [V DC]	Lithium-battery	10 ... 30	10 ... 30	NPN/PNP
Input Schmitt-Trigger	NPN/PNP	NPN/PNP	NPN/PNP	NPN/PNP

Position displays LED



Version Series	LED Panel mount CODIX 538	LED Panel mount CODIX 541	LED Panel mount CODIX 544	LED Panel mount CODIX 54P
Special features	CAN specification 2.0A, 2.0B. Automatic Operational Mode: CAN encoders can be read out directly	Position indicator with multiplying and dividing factor, set value and faster speed	Combination device with position indicator, pulse counter, frequency meter and timer function	Position indicator and Tachometer with separate scalable inputs
Technical data				
Number of digits	6	6	6	6
Digit height [mm]	8	14	14	14
Dimensions [mm]	DIN 48 x 24	DIN 96 x 48	DIN 96 x 48	DIN 96 x 48
Panel cut-out [mm]	45 x 22	92 x 45	92 x 45	92 x 45
Max. protection	IP 65 front side	IP 65 front side	IP 65 front side	IP 65 front side
Count frequency max. [kHz]	–	25 (Quad mode)	25 (Quad mode)	15 (Quad mode)
Counting mode	Automatic baud rate recognition up to 1 Mbit/s	Single, dual, quadruple evaluation direction or differential mode	Single, dual, quadruple evaluation direction or differential mode	Single, dual, quadruple evaluation direction or differential mode
Power supply [V DC]	–	10 ... 30	10 ... 30	10 ... 30
Power supply [V AC]	–	90 ... 260	90 ... 260	90 ... 260
Input Schmitt-Trigger	–	NPN/PNP	NPN/PNP	NPN/PNP

Position and multifunction control devices



		Version	LCD Panel mount	LED-Panel mount SSI-Display Typ 570	LED Panel mount Multifunction display Typ 571	LED Panel mount Position/ Difference counter Typ 572
		Series	923 / 924	SSI-clock frequency up to 1 MHz, master or slave mode	Fast count input for our LIMES system	Fast count input for our LIMES system
		Special features	Multifunction pre-set counter with pulse counter, position display, frequency display, tachometer, preset timer or short time meter. 923: 1 limit 924: 2 limits	Position display in conjunction with absolute encoders with SSI interface	programmable: speed, rotational speed, count and timer functions	2 separate count inputs 4 control inputs
Technical data						
	Number of digits		2 x 6	6	6	6
	Height of figures [mm]		Counter: 9; Preset: 7	15	15	15
	Panel cut-out [mm]		45 x 45	92 x 45	92 x 45	92 x 45
	Max. protection		IP 65 front side	IP 65 front side	IP 65 front side	IP 65 front side
	Max. count frequency [Hz]		55	1 MHz Data freq.	100 kHz at count	1 MHz at count
	Supply voltage [V DC]		10 ... 30	17 ... 30	16 ... 35	16 ... 35
	[V AC]		90 ... 260	115/230	115/230	24
	Inputs		Count/control inputs	4 SSI, Reset	2xTime, Reset	Count/control inputs
	Outputs		2 count inputs, gate, reset, lock, MPI, many expansion options	Scaleable analogue output or 2 optocouplers with tracking preset or RS 232/485 interface		4 solid-state outputs, RS 232 interface, optional analogue output

Accessories

<p>Enclosures</p>	<p>Transparent covers with key lock</p>	<p>Bezel adapters</p>
<p>Slip-on bezels</p>	<p>Software EzControl</p>	<p>Connection boxes</p>

Process displays **CODIX**



Version	Process display	Process display with totaliser function	Process display	Process display with totaliser function
Series	CODIX 529	CODIX 530	CODIX 550	CODIX 552
Special features	compact, 5 digit display for analogue and temperature inputs, microprocessor based technology, galvanic isolation of the supply voltage, low cost. 14 bit resolution, programmable scaling of characteristic curve for non-linear processes.		Very bright, large display, large keys for easy programming even wearing gloves, auxiliary sensor supply output, IP 65 protection (front). Process control devices with programmable characteristic curve with 24 control points. Relay outputs.	
Technical data				
Number of digits	5	5	5	5
MIN/MAX memory (EEPROM)	yes	–	yes	yes
Integration function scalable	–	yes	–	yes
Display/digit height [mm]	LED/8	LED/8	LED/14	LED/14
Dimensions [mm]	DIN 48 x 24	DIN 48 x 24	DIN 96 x 48	DIN 96 x 48
Panel cut-out [mm]	45 x 22	45 x 22	92 x 45	92 x 45
Inputs	0 ... 20 mA, 4 ... 20 mA 0 ... 10 V, 2 ... 10 V	0 ... 20 mA, 4 ... 20 mA 0 ... 10 V, 2 ... 10 V	0 ... 20 mA, 4 ... 20 mA 0 ... 10 V, 2 ... 10 V ±10 V	0 ... 20 mA, 4 ... 20 mA 0 ... 10 V, 2 ... 10 V ±10 V, Thermoc.
Supply voltage [V DC]	10 ... 30	10 ... 30	10 ... 30	10 ... 30
[V AC]			90 ... 260	90 ... 260

Temperature displays **CODIX**



Version	Temperature display PT100 and Ni 100	Temperature display J, K and N	Temperature display	EzControl
	CODIX 531	CODIX 532	CODIX 551*	
Special features	Sensor break detection, external or internal cold junction compensation		Very bright, large display, large keys for easy programming even wearing gloves	<ul style="list-style-type: none"> • Easy parameter software for CODIX 716/717 and process displays CODIX 55x. • Upload and download function • Monitor- and terminal programme • Online display for measurement values
Technical data				
Number of digits	5	5	5	
MIN/MAX memory	yes	yes	yes	
Display/Digit height [mm]	LED/8	LED/8	LED/14	
Dimensions [mm]	DIN 48 x 24	DIN 48 x 24	DIN 96 x 48	
Panel cut-out [mm]	45 x 22	45 x 22	92 x 45	
Inputs	PT100, Ni100	J, K and N Thermocouples	0 ... +100 mV –100 ... +100 mV 0 ... 400 Ω, 0 ... 4000 Ω, PT100/1000	
Input	Display- Hold	Display- Hold	Display- Hold	
Supply voltage [V DC]	10 ... 30	10 ... 30	10 ... 30	
[V AC]			90 ... 260	

New
–all Codix 550 ... 555
with serial interface
and software EzControl

*Programmable characteristic curve with 24 control points

CODIX-Series



New



<p><i>—all Codix 550 ... 555 with serial interface and software EzControl</i></p> <p>Version</p> <p>Series</p> <p>Special features</p>	<p>Process controller</p> <p>CODIX 553/555</p> <p>Very bright, large display, large keys for easy programming even wearing gloves, auxiliary sensor supply output, IP 65 protection (front). Process control devices with programmable characteristic curve with 24 control points. Relay outputs with hysteresis function. Menu programming. CODIX 555 has additional totaliser function</p>	<p>Temperature controller</p> <p>CODIX 554</p>	<p>Process controller</p> <p>Type 573</p> <p>2 analogue output and 1 analogue output or 2 switching outputs, programmable linearisation</p>	<p>Multifunction Signal conditioner/ Process controller 850/851</p> <p>designed for DIN-rail mounting, supplied with programming software, RS 232 interface</p>
	<p>Technical data</p> <p>Number of digits</p> <p>Display/Digit height [mm]</p> <p>MIN/MAX memory</p> <p>Dimensions [mm]</p> <p>Panel cut-out [mm]</p> <p>Inputs</p> <p>0 ... 20 mA, 4 ... 20 mA,</p> <p>0 ... 10 V, 2 ... 10 V, -10 ... + 10 V</p> <p>-100 ... +100 mV</p> <p>0 ... 400 Ω, 0 ... 4000 Ω, PT100/1000</p> <p>Thermocouples</p> <p>Control Inputs</p> <p>Supply voltage [V DC]</p> <p>(galvanically isolated) [V AC]</p> <p>Alarms/Outputs</p>	<p>5</p> <p>LED/14</p> <p>Yes</p> <p>DIN 96 x 48</p> <p>92 x 45</p> <p>yes</p> <p>yes</p> <p>—</p> <p>yes</p> <p>yes</p> <p>Reset, Key, Display Hold</p> <p>10 ... 30</p> <p>90 ... 260</p> <p>2/Relay or Optocoupler-outputs</p>	<p>5</p> <p>LED/14</p> <p>Yes</p> <p>DIN 96 x 48</p> <p>92 x 45</p> <p>—</p> <p>yes</p> <p>yes</p> <p>Reset, Key, Display Hold</p> <p>10 ... 30</p> <p>90 ... 260</p> <p>2/Relay or Optocoupler-outputs</p>	<p>6</p> <p>LED/15</p> <p>—</p> <p>DIN 96 x 48</p> <p>92 x 45</p> <p>2 analogue inputs (±10 V, 0 ... 20 mA, 4 ... 20 mA)</p> <p>17 ... 30</p> <p>115/230</p> <p>2/Relay or Optocoupler-outputs</p>

Setpoint generator CODIX 533

New



<p>Version</p> <p>Series</p> <p>Special features</p>	<p>Setpoint generator</p> <p>CODIX 533</p> <p>When a value is entered using the keys on the front, this will appear on the output of the device as either a current or a voltage value. Manual operation or programmable</p>	<p>The Setpoint generator offers three modes of operation:</p> <ul style="list-style-type: none"> - Manual operation - Manual ramping - Automatic ramping <p>With automatic ramping, the times and setpoint are programmed in and are then output automatically.</p>
<p>Technical data</p> <p>Function</p> <p>Display/Digit height [mm]</p> <p>Dimensions [mm]</p> <p>Panel cut-out [mm]</p> <p>Outputs</p> <p>Increment</p> <p>Accuracy</p> <p>Inputs</p> <p>Power supply [V DC]</p>	<p>Setpoint output</p> <p>4 LED/8</p> <p>DIN 48 x 24</p> <p>45 x 22</p> <p>0 ... 12 V DC und 0 ... 24 mA</p> <p>10 μA, 10 mV</p> <p>0,1 %</p> <p>Hold input, 2 keys</p> <p>10 ... 30 V DC galvanical isolated</p>	<p>Example of automatic ramping</p>

Accessories



Transparent cover



Bezel adapter



Enclosure



Slip-on bezel

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