

# Safety first



further information about Safety Solutions on page 5

[www.kuebler.com/safety](http://www.kuebler.com/safety)

## Encoders for Functional Safety

- Safe incremental encoder function
- Safe absolute encoder function
- Safe mechanical connection



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# Contents

## **Position and Motion Sensors** P. 4

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- Incremental Encoders P. 6
- Absolute Encoders Singleturn P. 8
- Absolute Encoders Singleturn Fieldbus P. 9
- Absolute Encoders Multiturn P. 9
- Absolute Encoders Multiturn Fieldbus P. 10
- Inclinometers P. 10
- Linear Measuring Technology P. 11

## **Connectors and Transmission Technology** P. 12

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- Slip Rings P. 14
- Optical Fibre Modules P. 14
- Cordsets P. 15

## **Counters and Process Displays** P. 16

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- Display Counters and Preset Counters Electronic P. 18
- Counters Electromechanical P. 21
- Preset Counters Electromechanical P. 24
- Process Displays, Process Control Devices P. 24
- Counters Pneumatic P. 26
- Counters with stepper motor P. 26

## **Kübler short profile** P. 2

---

- Service and contact details P. 28



## Our pulses are our assets



The core business of Kübler GmbH is the development, manufacture and marketing of leading-edge position and motion sensors, innovative display and counting technology as well as connection and transmission technology.

Founded in the year 1960, the family business is now led by the next generation of the family, Gebhard and Lothar Kübler. It is active worldwide with the export share of its turnover exceeding 60 percent. 6 subsidiaries and 50 exclusive representatives offer product know-how, service and advice globally on-site.

We see the opportunities for our business in the field of application-oriented innovations and in the provision of outstanding all-round service – always with the success of our customers in mind.

With over 250 employees, we reliably ensure the high level of flexibility of our products, superior quality management as well as exceptional delivery dependability.

# Our Product Portfolio



## Position and Motion Sensors



- Incremental Encoders
- Absolute Encoders
- Draw-wire Systems
- Linear Measuring Systems
- Inclinometers
- Lift systems

## Counters and Process Displays



- Display and Preset Counters
- Timers and Preset Hour meters
- Frequency Meters and Tachometers
- Combination Time and Energy Meters
- Position Displays
- Process Displays and Controllers

## Connectors and Signal Transmission Technology



- Slip rings
- Fibre Optic Modules
- Cables, Connectors and Cable Assemblies

## OEM Products and Systems (OPS)



- Customised Display, Measurement and Control Components
- Complete Systems Solutions: Sensor Technology, Electronics, Mechanics





# Position and Motion Sensors

Already back in 1997 Kübler introduced the first absolute multiturn encoder with hollow shaft and an installation depth of only 42 mm – a world first. Constant innovations such as the Safety-Lock™ Design or the first optical electronic multiturn stage were to follow this tradition and made new applications and customer solutions possible.



## Incremental and Absolute Singleturn, Multiturn and Fieldbus Encoders

Whether with interference-free positioning or controlling in real-time, as a result of their ingenious safety concept, their extremely rugged technology and their compact construction, Kübler encoders make a significant contribution to the reliability of plant and machinery.

## Draw-wire sensors and linear measuring systems

Kübler offers 3 technologies for professional industrial positioning tasks and for length or linear displacement measuring systems:

- the tried-and-tested draw-wire sensors for measurement lengths up to 40 metres
- the compact, non-contact magnetic measurement system LIMES
- systems with measuring wheels for direct detection on the running material or conveyor belt.

## Inclinometers

Kübler inclinometers are naturally suited to use in harsh industrial environments, whether in railway technology, solar installations, commercial vehicles or cranes and hoists. They boast a compact, rugged construction, excellent shock resistance and a high protection rating.

## Kübler Sendix



The Sendix family of devices guarantees an extremely safe, fast technology in an exceptionally compact housing. Among its trademarks is the sturdy Safety-Lock™ Design bearing structure that facilitates problem-free use outdoors, as well as a wide variety of connection and mounting options. Optimised encoders can be created within the modular system. Following the motto: the use determines the product.



- **Extremely robust**
- **Compact dimensions**
- **Flexible mounting options**
- **Flexible connection options**
- **Wide temperature range**

## Encoders for Functional Safety

Since the Machinery Directive 2006/42/EC came into force, safety is more than ever an “integral part of plant construction”. When choosing the right encoder for functional safety, the principle applies that safety is achieved through the intelligent combination of encoder, controller and actuator.













### Kübler offers

Sendix SSI absolute encoders, with an additional Sin/Cos incremental output, and Sin/Cos versions of Sendix incremental encoders, with SIL3/PLe certification.







The following safety functions can be implemented in accordance with standards DIN EN 13849-1 and DIN EN 61800-5-2 up to SIL3/PLe/Cat.4: **SS1** (Safe Stop 1), **SS2** (Safe Stop 2), **SOS** (Safe Operating Stop), **SLS** (Safe Limited Speed), **SLI** (Safe Limited Increment of Position), **SLP** (Safe Limited Position), **SSR** (Safe Speed Range), **SDI** (Safe Direction), **SSM** (Safe Speed Monitoring).

## Incremental Encoders

	Ø Dimensions in mm	Magnetic (Accuracy ±1°)	Optical (Accuracy ≤±0,015°)	Resolution max. in PPR	Push-pull interface	RS422 interface	Sin / Cos interface	Ø Hollow shaft max. in mm	Speed max. in RPM	Temperature range in °C	Protection rating max.	Type of connection Cable	Type of connection Connector	Supply voltage in VDC	Pulse frequency max. in kHz	RoHS compliant	ATEX approval for Zone
	24	–	•	1.024	•	–	–	6	12.000	–20...+85	IP64	•	–	5...24 8...30	160	•	–
Miniature optical <b>2400</b> (Shaft) <b>2420</b> (Hollow shaft)																	
	24	•	–	256	–	•	–	6	12.000	–20...+85	IP67	•	–	5	300	•	–
Miniature magnetic <b>2430</b> (Shaft) <b>2440</b> (Hollow shaft)																	
	36	–	•	2.500	•	•	–	8	12.000	–20...+85	IP64	•	M12	5...18 8...30	200	•	–
Compact, optical <b>3610</b> (Shaft) <b>3620</b> (Hollow shaft)																	
	37	–	•	1.024	•	•	–	8	6.000	–20...+70	IP65	•	–	5 5...30 10...30	250	•	–
Economy, optical <b>3700</b> (Shaft) <b>3720</b> (Hollow shaft)																	
	58	–	•	1.024 and 2.048	–	–	•	14	12.000	–40...+90	IP67	•	M12 M23	5 10...30	400	•	–
Functional Safety, <b>Sendix 5814 SIL</b> (Shaft) <b>Sendix 5834</b> (Hollow s.)																	
	58	–	•	5.000	•	•	–	15 15,87	12.000	–40...+85	IP67	•	M12 M23 MIL	5 5...30 10...30	300	•	2;22
Standard, optical <b>Sendix 5000</b> (Shaft) <b>Sendix 5020</b> (Hollow shaft)																	
	58	–	•	5.000	•	•	–	12	12.000	–20...+105	IP65	•	M23 MIL	5 10...30	300	•	–
High temperature, optical <b>5803</b> (Shaft) <b>5823</b> (Hollow shaft)																	
	58	–	•	5.000	–	–	•	12	12.000	–20...+85	IP65	•	M23	5 10...30	180	•	–
Sine wave outputs, optical <b>5804</b> (Shaft) <b>5824</b> (Hollow shaft)																	
	58	–	•	36.000	•	•	–	12	12.000	–20...+85	IP65	•	M23	5 10...30	800	•	–
High resolution <b>5805</b> (Shaft) <b>5825</b> (Hollow shaft)																	
	58	–	•	5.000	•	•	–	12	12.000	–40...+85	IP67	•	M12	5 5...30 10...30	300	•	–
Stainless-steel <b>Sendix 5006</b> (Shaft) <b>5826</b> (Hollow shaft)																	
	115	–	•	3.600	•	•	–	–	6.000	–40...+100	IP66	•	M12	5...30 10...30	300	•	–
<b>Sendix H100</b> Incremental encoder with speed switch																	
	58	–	•	5.000	•	•	–	28	2.500	–20...+70	IP64	•	M12	5 8...30	300	•	–
Large hollow shaft, optical <b>5821</b> (Hollow shaft)																	



### Incremental Encoders (continued)

	Ø Dimensions in mm	Magnetic (Accuracy ±1°)	Optical (Accuracy ±0,015°)	Resolution max. in PPR	Push-pull interface	RS422 interface	Sin / Cos interface	Ø Hollow shaft max. in mm	Speed max. in RPM	Temperature range in °C	Protection rating max.	Type of connection Cable	Type of connection Connector	Supply voltage in V DC	Pulse frequency max. in kHz	RoHS compliant	ATEX approval for Zone
 Large hollow shaft, optical <b>A020</b> (Hollow shaft) <b>A02H</b> (Hollow shaft)	100	•	•	5.000	•	•	•	42	6.000	-40...+80	IP65	• M12 M23	5 5...30 10...30	300	•	-	-
 ATEX, optical <b>7030</b> (Shaft/Hollow shaft)	70	-	•	5.000	•	•	-	12	6.000	-20...+60	IP65	• -	5 10...30	300	•	1;2; 21;22	-
 Magnetic measurement system with 0 pulse <b>RI20/LI20</b> (Hollow shaft)	16 x 10	•	-	3.600	•	•	-	30	12.000	-20...+80	IP67	• -	4,8...26 4,8...30	250	•	-	-
 Magnetic measurement system with 0 pulse <b>RI50/LI50</b> (Hollow shaft)	16 x 10	•	-	3.600	•	•	-	30	9.000	-20...+80	IP67	• -	4,8...26 4,8...30	250	•	-	-

### Accessories for Position and Motion Sensors

Kübler original accessories are individually adapted to match each particular model. They meet our high quality demands.



Connectors



Cables



Custom assemblies



Couplings



Flange adapters



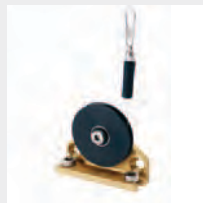
Bearing units



Mounting fixtures and supports



Displays



Draw-wire accessories

### Isolation / adapter inserts for hollow shaft encoders












#### Thermal and electrical isolation of the encoders.

These isolation inserts prevent currents from passing through the encoder bearings. These can occur when using inverter controlled three-phase or AC vector motors and considerably shorten the service life of the encoder bearings. In addition the encoder is thermally isolated as the plastic does not transfer the heat to the encoder.





**Tip:** By using these adapter inserts you can achieve six different hollow shaft diameters, all on the basis of one encoder.









## Absolute Encoders Singleturn

	Ø Dimensions in mm	Magnetic (Accuracy ± 1°)	Optical (Accuracy ≤ ± 0,015°)	Resolution max. in bits	SSI interface	BiSS interface	Analogue interface	Parallel interface	Additional incremental track	Speed max. in RPM	Temperature range in °C	Protection rating max.	Type of connection Cable	Type of connection Connector	Supply voltage in V DC	RoHS compliant	ATEX approval for Zone
	24	•	–	12	•	–	–	–	–	12.000	–20 ... +85	IP67	•	–	5 8 ... 30	•	–
<b>2450</b> (Shaft) <b>2470</b> (Hollow shaft)																	
	36	•	–	9	•	–	–	–	–	6.000	–40 ... +85	IP69k	•	–	5 ... 30	•	2; 22
<b>Sendix 3650</b> (Shaft) <b>Sendix 3670</b> (Hollow shaft)																	
	36	•	–	12	–	–	4 ... 20 mA 0 ... 10 V	–	–	6.000	–40 ... +85	IP69k	•	M12	18 ... 30	•	2; 22
<b>Sendix 3651</b> (Shaft) <b>Sendix 3671</b> (Hollow shaft)																	
	36	–	•	17	•	•	–	–	SinCos RS422	12.000	–40 ... +90	IP67	•	M12	5 10 ... 30	•	2; 22
<b>Sendix F3653</b> (Shaft) <b>Sendix F3673</b> (Hollow shaft)																	
	58	–	•	17	•	•	–	–	SinCos	9.000/ 12.000	–40 ... +90	IP67	•	M23	5 10 ... 30	•	–
<b>Sendix 5853 SIL</b> (Shaft) <b>Sendix 5873 SIL</b> (Hollow s.)																	
	58	–	•	17	•	•	–	–	SinCos RS422	12.000	–40 ... +90	IP67	•	M12 M23	5 10 ... 30	•	2; 22
<b>Sendix 5853</b> (Shaft) <b>Sendix 5873</b> (Hollow shaft)																	
	58	–	•	14	–	–	4 ... 20 mA	•	–	12.000	–20 ... +85	IP66	•	M23	5 10 ... 30	•	–
<b>5850</b> (Shaft) <b>5870</b> (Hollow shaft)																	
	58	–	•	14	–	–	–	•	–	12.000	–20 ... +80	IP66	•	M23	5 10 ... 30	•	–
<b>5852</b> (Shaft) <b>5872</b> (Hollow shaft)																	
	58	–	•	14	•	–	–	•	–	6.000	–20 ... +80	IP67	•	M12	5 10 ... 30	•	2; 22
<b>5876</b> (Hollow shaft)																	
	70	–	•	17	•	–	–	–	–	6.000	–40 ... +60	IP67	•	–	10 ... 30	•	1; 2; 21; 22
<b>7053</b> (Shaft)																	
	70	–	•	14	•	–	4 ... 20 mA	•	–	6.000	–20 ... +60	IP65	•	–	5 10 ... 30	•	1; 2; 21; 22
<b>7031</b> (Shaft/Hollow shaft)																	

## Absolute Encoders Singleturn Fieldbus






	Ø Dimensions in mm	Magnetic (Accuracy ±1°)	Optical (Accuracy ≤ ±0,015°)	CANopen	SAE J1939	Profibus DP	Profinet	EtherCAT	Type of connection Cable	Type of connection Connector	Resolution max. in bits	Speed max. in RPM	Temperature range in °C	Protection rating max.	Supply voltage in V DC	RoHS compliant	ATEX approval for Zone
	Compact, magnetic <b>Sendix M3658</b> (Shaft) <b>Sendix M3678</b> (Hollow shaft)	36	•	–	•	•	–	–	•	M12	14	6.000	–40...+85	IP69k	8...30	•	2; 22
	Compact, optical <b>Sendix F3658</b> (Shaft) <b>Sendix F3678</b> (Hollow shaft)	36	–	•	•	–	–	–	•	–	16	12.000	–40...+85	IP67	10...30	•	2; 22
	Standard, optical <b>Sendix 5858</b> (Shaft) <b>Sendix 5878</b> (Hollow shaft)	58	–	•	•	–	•	•	•	M12 M23	16	12.000	–40...+80	IP67	10...30	•	2; 22
	ATEX, optical <b>7058</b> (Shaft)	70	–	•	•	–	•	–	•	–	16	6.000	–40...+60	IP67	10...30	•	1; 2; 21; 22

## Absolute Encoders Multiturn



	Ø Dimensions in mm	Optical (Accuracy ≤ ±0,015°)	Resolution max. in bits ST + MT	SSI interface	BiSS interface	RS485 interface	Additional incremental track	Speed max. in RPM	Temperature range in °C	Protection rating max.	Type of connection Cable	Type of connection Connector	Supply voltage in V DC	RoHS compliant	ATEX approval for Zone	
	Compact, optical <b>Sendix F3663</b> (Shaft) <b>Sendix F3683</b> (Hollow s.)	36	•	17+24	•	•	–	SinCos RS422	12.000	–40...+90	IP67	•	M12	5 10...30	•	2; 22
	Functional Safety, optical <b>Sendix 5863 SIL</b> (Shaft) <b>Sendix 5883 SIL</b> (Hollow s.)	58	•	17+12	•	•	–	SinCos	12.000	–40...+90	IP67	•	M23	5 10...30	•	–
	Standard, optical <b>Sendix 5863</b> (Shaft) <b>Sendix 5883</b> (Hollow shaft)	58	•	17+12	•	•	–	SinCos RS422	12.000	–40...+90	IP67	•	M12 M23	5 10...30	•	2; 22
	Standard, programmable optical/magnetic <b>5862</b> (Shaft) <b>5882</b> (Hollow shaft)	58	•	13+12	–	–	•	RS422	6.000	–20...+85	IP65	•	M23	4,75...30 5...30	•	–
	Standard, programmable optical/magnetic <b>9081</b> (Large Hollow shaft)	90	•	13+12	•	–	•	RS422	6.000	–20...+70	IP65	•	M23	4,75...30 5...30	•	–
	ATEX, optical <b>7063</b> (Shaft)	70	•	17+12	•	–	–	–	6.000	–40...+60	IP67	•	–	10...30	•	1; 2; 21; 22



## Absolute Encoders Multiturn Fieldbus

	Ø Dimensions in mm	Optical (Accuracy $\leq \pm 0,015^\circ$ )	Resolution max. in bits ST+MT	CANopen	CANopenlift	Profibus DP	Profinet	DeviceNet	EtherCAT	Speed max. in RPM	Temperature range in °C	Protection rating max.	Type of connection Cable	Type of connection Connector	Supply voltage in V DC	RoHS compliant	ATEX approval for Zone
	36	•	16+16	•	–	–	–	–	–	12.000	–40...+85	IP67	•	–	10...30	•	2; 22
Compact, optical <b>Sendix F3668</b> (Shaft) <b>Sendix F3688</b> (Hollow shaft)																	
	58	•	16+12	•	•	•	•	–	•	9.000	–40...+90	IP67	•	M12 M23	10...30	•	2; 22
Standard, optical <b>Sendix 5868</b> (Shaft) <b>Sendix 5888</b> (Hollow shaft)																	
	58	•	13+12	–	–	–	–	•	–	6.000	–20...+85	IP65	•	M12	10...30	•	–
Standard optical/magnetic <b>5860</b> (Shaft/Hollow Shaft)																	
	90	•	13+12	•	–	•	–	•	–	6.000	–10...+70	IP65	•	M12	10...30	•	–
Standard, optical/magnetic <b>9080</b> (large hollow shaft)																	
	70	–	16+12	•	–	•	–	–	–	6.000	–40...+60	IP67	•	–	10...30	•	1; 2 21; 22
ATEX, optical <b>7068</b> (Shaft)																	

## Inclinometers

	Measuring angle max.	Accuracy max.	Resolution max.	Ø Dimensions in mm	Absolute Analogue	Absolute Fieldbus	Speed max. in m/s	Temperature range in °C	Protection rating max.	Type of connection Connector	RoHS compliant
	$\pm 60^\circ$	0,3°	0,05°	60x30 x20	4...20mA 0,1...4,9V	–	Reaction time 0,1s	–30...+70	IP68	M12	•
Inclinometer analogue <b>IS40</b>											
	$\pm 60^\circ$	0,2°	0,05°	68x42,5 x42,5	–	•	Reaction time 0,1s	–40...+80	IP68	M12	•
Inclinometer CAN open <b>IS60</b>											

## Linear Measuring Technology

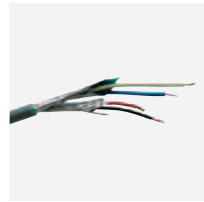
		Measuring length max. in m	Accuracy max.	Resolution max.	Ø Dimensions in mm	Incremental RS422 / Push-pull	Incremental Sin / Cos	Absolute Analogue	Absolute SSI / BiSS	Absolute Fieldbus	Speed max. in m/s	Temperature range in °C	Protection rating max.	Type of connection Cable	Type of connection Connector	RoHS compliant
	Magn. measuring system resolution min. 10 µm <b>Limes LI20/B1</b>	50	dep. on meas. length 0,08 mm for 1m	10 µm	10x25x40	•	–	–	–	–	25	–20...+80	IP67	•	–	•
	Magn. measuring system resolution min. 5 µm <b>Limes LI50/B2</b>	50	dep. on meas. length 0,1 mm for 1m	5 µm	10x25x40	•	–	–	–	–	16	–20...+80	IP67	•	–	•
	Draw wire encoder <b>A50</b> Measuring length 1,25 m	1,25	±0,05% of measuring range	0,05 mm	50x50 x max. 99	•	–	4...20 mA 0...10 V 1kΩ	•	•	10	–20...+85	IP67	•	M12	•
	Draw wire encoder <b>B80</b> Measuring length 3 m	3	±0,05% of measuring range	0,05 mm	80x80 x max. 144	•	•	4...20 mA 0...10 V 1kΩ	•	•	10	–20...+90	IP67	•	M12 M23	•
	Draw wire encoder <b>C120</b> Measuring length 6 m	6	±0,05% of measuring range	0,08 mm	120x120x max. 136	•	•	4...20 mA 0...10 V 1kΩ	•	•	10	–20...+90	IP67	•	M12 M23	•
	Draw wire encoder <b>D135</b> Measuring length 40 m	40	±0,05% of measuring range	0,08 mm	135x135 x max. 318	•	•	4...20 mA 0...10 V 1kΩ	•	•	10	–20...+90	IP67	•	M12 M23	•
	Draw wire mechanics Miniature	2	±0,1% of measuring range	0,1 mm	40x40 x max. 72	•	–	4...20 mA 0...10 V 10kΩ	–	–	0,8	–20...+90	–	•	–	•
	Draw wire encoder, Standard Measuring length 6 m	6	±0,1% of measuring range	0,1 mm	105x85 x max. 163	•	•	–	•	•	3	–20...+70	–	•	M12 M23	•
	Elevator Measuring System for Shaft- copying LM	120	±0,5mm	0,1 mm	dep. on type	•	•	–	•	•	6	–20...+85	IP67	•	M12 M23 MIL	•
	Mini measuring wheel system	∞	±0,015°	0,1 mm	74x50x48	•	•	–	–	–	2.000 rpm	–20...+80	IP64	•	–	•
	Length measuring system with measuring wheel	∞	±0,015°	0,1 mm	dep. on the measuring wheel	•	•	–	–	–	2.000 rpm	–20...+80	IP67	•	M12 M23 MIL	•
	Length measuring system with rack & pinion	∞	0,5 mm	0,1 mm	dep. on rack	•	•	–	–	–	0,5	–20...+80	IP67	•	M12 M23 MIL	•





# Connectors and Transmission Technology

Quality down to the last detail. Our activities are orientated with the focus always on the customer – from the creation of the product right through to final delivery. This high quality extends to every detail, from the connectors to the optical fibre modules.



## Slip rings

Innovation meets tried and tested product quality and compact dimensions: the new Kübler slip ring generation brings together a number of performance features under one umbrella. The areas of application are many and diverse: from video surveillance (CCTV) equipment, via cranes through to rotary tables, slip rings are able to transmit power, signals or data from a stationary to a rotating platform. Fieldbus signals such as Profibus or CANopen can be transmitted at up to 12 MB.

## Connectors and Cables

The comprehensive choice of cables, connectors and cordsets from Kübler ensures error-free connections and highly accurate transmission. A perfect match for our encoders and counters.

## Optical fibre transmitter modules

Kübler optical fibre modules solve transmission problems simply, reliably and yet at the same time economically. They reliably convert electrical signals into optical signals – and back again. This technology finds its use wherever electrical signals do not suffice to guarantee a safe transmission of the signals. Or where interference, too large distances or shielding prevent good communication. Even when subjected to extremely strong electro-magnetic fields, Kübler optical fibre modules can transmit signals over distances of up to 1000 metres. With perfect safety.

## M12 Cordsets with integrated control LEDs

The new 8-pin M12 cordset for incremental encoders ensures fast, simple connections under difficult outdoor conditions. The transparent right-angle housing contains three LEDs for displaying channels A, B and Z.

- Monitors all important encoder functions
- Easy troubleshooting
- Installation help for zero point detection



### Slip Rings



	Power/Current (Signal type)	Signal (Signal type)	Pneumatics (Signal type)	Hydraulics (Signal type)	N° of channels max.	Ø Hollow shaft max. in mm	Current max. in A	Protection rating max.	Speed max. in RPM	Temperature range max. in °C
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<b>SR060</b>	•	•	-	-	5	25	16	IP 50	500	0...+75
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<b>SR085</b>	•	•	•	•	20	30	25	IP 64	800	0...+80
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### Optical Fibre Modules (LWL)






	Interface	Transmission distance in m	Input frequency in kHz	Transmission rate in Mbit/s	Temperature in °C	Supply voltage in VDC	Power consumption in W
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<b>LWL</b>	RS 422 HTL	1.000	400	120	-10...+60	5 10...30	2
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<b>LWL.A</b>	SSI	1.000	500	120	-10...+60	5 10...30	2
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### Connectors

		N° of pins	Housing	Connection technology	Cable diameter Ø in mm	Straight connector	Right angle connector	wall/panel lead-through
	M12	4/5/8	Metal	Screw terminals	6 – 8	•	•	•
	M23	9/12/17	Metal	Solder pins	5,5 – 10,5	•	–	•
	MIL	7/10	Metal	Solder pins	5 – 8	•	–	–

### Cordsets

		PVC cable	PUR cable	TPE cable	Optical fibre	Straight connector	Right angle connector	for incremental encoders	for SSI / BiSS encoders	for Fieldbus	for analogue interfaces
	M12	•	•	–	–	•	•	•	•	•	•
	M23	•	•	•	–	•	–	•	•	–	•
	LWL	–	–	–	•	•	–	•	•	–	–



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# Counters and Process Displays

Successful innovation? A question of corporate culture. In 1960 company founder Fritz Kübler developed the first short time meter with permanent time display. In 2007 Kübler introduced its unique combination meter HW 66, the first in the world to measure both time and energy in one device.



## Electromechanical counters

The indestructible all-rounders – from microcounters to standard hour meters. The mature technology platform of the robust counters with electromagnetic drive and mechanical counting drum system is still as up-to-date today as it always was. Due to their low power consumption these counters are ideal for battery operation. Their significant features include – as always – their excellent shock, impact and magnetic-field resistance.

## Electronic counters

Have everything that counts. Kübler offers a wide range of counters for pulses, frequency, position and time – all with proven quality. Electronic counters from the house of Kübler boast very high protection levels and require only minimal installation depths. The possibilities when it comes to their areas of application are therefore virtually limitless.

## Process Devices

Control is better. Kübler process devices reliably display and control their process values such as temperature or pressure – with linearization functions with up to 32 control points. Here the Codix name guarantees the concept of simple, unified operation. The Kübler process technology portfolio includes process and temperature displays, process control devices and setpoint generators.

## Kübler Codix



The Kübler Codix brand name stands for universal usability and standard dimensions, as well as for the philosophy of simple menu-driven programming of our latest counter generation.



At the centre of the sophisticated technology lie the large, easy-to-read LED or LCD displays and the intuitive operation, which we also offer with text menu programming. The high quality plug-in screw terminals make a significant contribution to the fast, user-friendly start-up.



- Very bright LED display



- High contrast LCD display



- Robust housing



- High IP protection

- Simple, unified programming

- Fast count and frequency inputs

## Display Counters multifunctional for pulse, frequency, time and position Electronic



	Pulse	Time	Frequency	Tachometer	Position	Fieldbus (FB) / Serial Interface (SI)	Presets: o = optocoupler; r = relay	Reset manual	Reset electrical	Programmable	Display	Number of digits	Dimensions Front in mm	Panel cut-out in mm	Depth in mm	Temperature range in °C	Protection max.	Power supply	RoHS compliant
<b>Codix 130</b> adding or subtracting, DC/AC	•	-	-	-	-	-	-	•	•	-	LCD	8	48x24	45x22,2	47,7	-10...+60	IP65	battery	•
<b>Codix 131</b> count direction or difference counter, DC/AC	•	-	-	-	-	-	-	•	•	-	LCD	8	48x24	45x22,2	47,7	-10...+60	IP65	battery	•
<b>Codix 132</b> count direction, AC	•	-	-	-	-	-	-	•	•	-	LCD	8	48x24	45x22,2	47,7	-10...+60	IP65	battery	•
<b>Codix 133</b> quadrature x1 and x2	-	-	-	-	•	-	-	•	•	-	LCD	8	48x24	45x22,2	47,7	-10...+60	IP65	battery	•
<b>Codix 134</b> 9999h59 or 99999-99h	-	•	-	-	-	-	-	•	•	-	LCD	8	48x24	45x22,2	47,7	-10...+60	IP65	battery	•
<b>Codix 135</b> 9999h59m59s or 9999999.9	-	•	-	-	-	-	-	•	•	-	LCD	8	48x24	45x22,2	47,7	-10...+60	IP65	battery	•
<b>Codix 136</b> in Hz	-	-	•	•	-	-	-	-	-	-	LCD	8	48x24	45x22,2	47,7	-10...+60	IP65	battery	•
<b>Codix 140</b> adding 0...9999999	•	-	-	-	-	-	-	•	•	-	LCD	7	48x24	45x22,2	47,7	-20...+65	IP65	DC	•
<b>Codix 141</b> 99999.99h	-	•	-	-	-	-	-	•	•	-	LCD	7	48x24	45x22,2	47,7	-20...+65	IP65	DC	•
<b>Codix 142</b> Service counter 0...9999999	•	-	-	-	-	-	1 <sub>o</sub>	•	•	•	LCD	7	48x24	45x22,2	47,7	-20...+65	IP65	DC	•
<b>Codix 143</b> Service counter 99999.99h	-	•	-	-	-	-	1 <sub>o</sub>	•	•	•	LCD	7	48x24	45x22,2	47,7	-20...+65	IP65	DC	•
<b>190</b> PCB mounting	•	-	-	-	-	-	-	-	•	-	LCD	7	32x18	-	5	-40...+80	-	DC	•
<b>192</b> PCB mounting	•	-	-	-	-	-	-	-	•	-	LCD	6	32x18	-	5	-40...+85	-	DC	•
<b>194</b> PCB mounting	-	•	-	-	-	-	-	-	•	-	LCD	6	32x18	-	5	-40...+80	-	DC	•
<b>198</b> PCB mounting	-	•	-	-	-	-	-	-	•	-	LCD	6	32x18	-	5	-40...+85	-	DC	•
<b>Codix 520</b> adding or subtracting	•	-	-	-	-	-	-	•	•	•	LED	6	48x24	45x22,2	59	-20...+65	IP65	DC	•
<b>Codix 521</b> 6 count modes	•	-	-	-	•	-	1 <sub>o</sub>	•	•	•	LED	6	48x24	45x22,2	59	-20...+65	IP65	DC	•
<b>Codix 522</b> 1/sec or 1/min	-	-	•	•	-	-	1 <sub>o</sub>	•	•	•	LED	6	48x24	45x22,2	59	-20...+65	IP65	DC	•
<b>Codix 523</b> h, min, sec or hh.mm.ss	-	•	-	-	-	-	1 <sub>o</sub>	•	•	•	LED	6	48x24	45x22,2	59	-20...+65	IP65	DC	•



Display Counters  
multifunction for pulse, frequency,  
time and position  
Electronic  
(continued)



	Pulse	Time	Frequency	Tachometer	Position	Fieldbus (FB) / Serial Interface (SI)	Presets: o = optocoupler; r = relay	Reset manual	Reset electrical	Programmable	Display	Number of digits	Dimensions Front in mm	Panel cut-out in mm	Depth in mm	Temperature range in °C	Protection max.	Power supply	RoHS compliant
<b>Codix 524</b> Multifunction	•	•	•	•	•	–	1 <sub>o</sub>	•	•	•	LED	6	48x24	45x22,2	59	–20...+65	IP65	DC	•
<b>Codix 52C</b> 2 totalisers with separate inputs and separate scaling	•	–	–	–	–	–	–	•	•	•	LED	6	48x24	45x22,2	59	–20...+65	IP65	DC	•
<b>Codix 52P + Frequenz</b> 6 count modes	•	–	•	•	•	–	–	•	•	•	LED	6	48x24	45x22,2	59	–20...+65	IP65	DC	•
<b>Codix 52T</b> 2 totalisers with separate scaling	•	–	–	–	–	–	–	•	•	•	LED	6	48x24	45x22,2	59	–20...+65	IP65	DC	•
<b>Codix 52U</b> with dual function in 4 combinations	•	•	•	•	–	–	–	•	•	•	LED	6	48x24	45x22,2	59	–20...+65	IP65	DC	•
<b>Codix 538</b> CAN display	–	–	–	–	•	FB	–	•	•	•	LED	6	48x24	45x22,2	59	0...+50	IP65	DC	•



<b>Codix 540</b> adding or subtracting	•	–	–	–	–	–	–	•	•	•	LED	6	96x48	92x45	83	–20...+65	IP65	DC/AC	•
<b>Codix 541</b> 6 count modes	•	–	–	–	•	–	1 <sub>o</sub>	•	•	•	LED	6	96x48	92x45	83	–20...+65	IP65	DC/AC	•
<b>Codix 542</b> 1/sec or 1/min	–	–	•	•	–	–	1 <sub>o</sub>	•	•	•	LED	6	96x48	92x45	83	–20...+65	IP65	DC/AC	•
<b>Codix 543</b> h, min, sec or hh.mm.ss	–	•	–	–	–	–	1 <sub>o</sub>	•	•	•	LED	6	96x48	92x45	83	–20...+65	IP65	DC/AC	•
<b>Codix 544</b> Multifunction	•	•	•	•	•	–	1 <sub>o</sub>	•	•	•	LED	6	96x48	92x45	83	–20...+65	IP65	DC/AC	•
<b>Codix 54P + Frequenz</b> 6 count modes	•	–	•	•	•	–	–	•	•	•	LED	6	96x48	92x45	83	–20...+65	IP65	DC/AC	•
<b>Codix 54U</b> with dual function in 4 combinations	•	•	•	•	–	–	–	•	•	•	LED	6	96x48	92x45	83	–20...+65	IP65	DC/AC	•











<b>570</b> SSI display, analogue output, serial interface	–	–	–	–	•	SI	2 <sub>r,o</sub>	•	•	•	LED	6	96x48	92x45	141	0...+45	IP65	DC/AC	•
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<b>571</b> Timer (also reciprocal), analogue output, serial interface	•	•	•	•	•	SI	2 <sub>o</sub>	•	•	•	LED	6	96x48	92x45	141	0...+45	IP65	DC/AC	•
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**Preset Counters**  
**multifunctional for pulse,**  
**frequency, time and position**  
**Electronic**

	Pulse	Time	Frequency	Tachometer	Position	Fieldbus (FB) / Serial Interface (SI)	Presets: o = optocoupler; r = relay	Reset manual	Reset electrical	Programmable	Display	Number of digits	Dimensions Front in mm	Panel cut-out in mm	Depth in mm	Temperature range in °C	Protection max.	Power supply	RoHS compliant	
	•	•	•	•	•	SI	1 <sub>r,o</sub>	•	•	•	LED	6	48x48	45x45	80	-10...+50	IP65	DC/AC	•	
<b>Codix 716</b> opt. serial interface																				
	•	•	•	•	•	SI	2 <sub>r,o</sub>	•	•	•	LED	6	48x48	45x45	80	-10...+50	IP65	DC/AC	•	
<b>Codix 717</b> ATEX version available opt. serial interface																				
	•	-	-	-	-	-	1 <sub>r</sub>	•	•	•	LCD	2x6	48x48	45x45	63,2	-10...+50	IP65	battery	•	
<b>901</b> adding or subtracting																				
	•	•	-	-	•	-	1 <sub>r</sub>	•	•	•	LCD	2x6	48x48	45x45	91	-10...+50	IP65	DC/AC	•	
<b>Codix 907</b> Decade keyboard 5 kHz count frequency																				
	•	•	-	-	•	-	2 <sub>r</sub>	•	•	•	LCD	2x6	48x48	45x45	91	-10...+50	IP65	DC/AC	•	
<b>Codix 908</b> Decade keyboard 5 kHz count frequency																				
	•	•	•	•	•	-	1 <sub>r</sub>	•	•	•	LCD/ LED Look	2x6	48x48	45x45	91	-20...+65	IP65	DC/AC	•	
<b>Codix 923</b> Multicolour display Decade keyboard 60 kHz count frequency																				
	•	•	•	•	•	-	up to 4 <sub>r</sub> 6 <sub>o</sub>	•	•	•	LCD/ LED Look	2x6	48x48	45x45	91	-20...+65	IP65	DC/AC	•	
<b>Codix 924</b> Multicolour display Decade keyboard 60 kHz count frequency																				
	•	•	•	•	•	SS FB	2 <sub>r</sub>	•	•	•	LED	6	96x48	92x45	91	-20...+65	IP65	DC/AC	•	
<b>Codix 560</b> LED multifunction preset counter 14 segment LED Automatic help texts opt. serial interface																				
	-	-	-	-	•	SS	2 <sub>r,o</sub>	•	•	•	LED	6	96x48	92x45	141	0...+45	IP65	DC/AC	•	
<b>570</b> SSI display, analogue output, serial interface																				
	•	•	•	•	•	SS	2 <sub>o</sub>	•	•	•	LED	6	96x48	92x45	141	0...+45	IP65	DC/AC	•	
<b>571</b> Timer (also reciprocal), analogue output, serial interface																				
	•	•	•	•	•	SS	4 <sub>o</sub>	•	•	•	LED	6/8	96x48	92x45	141	0...+45	IP65	DC/AC	•	
<b>572</b> Dual preset counters with 4 outputs and analogue output, serial interface																				




## Pulse-Counters Electromechanical

		Pulse	Time	kWh	Panel mounting	PCB mounting	Surface mounting	DIN rail mounting	Reset	Number of digits	Dimensions in mm	Panel cut-out in mm (for front panel version)	Temperature range in °C	Protection max.	Supply type	RoHS compliant
	<b>K46</b> High shock resistance	•	-	-	•	•	-	-	-	6	30x20 Panel mount	27x14	-10...+60	IP65	DC	•
	<b>K47</b> High shock resistance	•	-	-	•	•	-	-	-	7	30x20 Panel mount	27x14	-10...+60	IP65	DC	•
	<b>K66</b> High shock resistance, magnetic field resistant	•	-	-	•	•	-	-	-	6	30x20 Panel mount	27x14	-10...+60	IP65	DC	•
	<b>K67</b> High shock resistance, magnetic field resistant	•	-	-	•	•	-	-	-	7	30x20 Panel mount	27x14	-10...+60	IP65	DC	•
	<b>K04</b> High shock resistance	•	-	-	•	•	-	-	-	4	26x15 Panel mount	24x13	-10...+60	IP65	DC/AC	•
	<b>K05/AK05</b> High shock resistance	•	-	-	•	•	•	-	-	5	26x15 Panel mount	24x13	-10...+60	IP65	DC/AC	•
	<b>K06/AK06</b> High shock resistance	•	-	-	•	•	•	-	-	6	32x15 Panel mount	30x13	-10...+60	IP65	DC/AC	•
	<b>K07/AK07</b> High shock resistance	•	-	-	•	•	•	-	-	7	32x15 Panel mount	30x13	-10...+60	IP65	DC/AC	•
	<b>SK06</b> High shock resistance	•	-	-	-	-	•	•	-	6	30x65	-	-10...+60	IP50	DC/AC	•
	<b>SK07</b> High shock resistance	•	-	-	-	-	•	•	-	7	30x65	-	-10...+60	IP50	DC/AC	•
	<b>W15/AW15</b> Also in DIN format 48x24 mm	•	-	-	•	-	•	-	manual	5	from 34x23	from 31x20	-10...+60	IP40	DC/AC	•
	<b>W16/AW16</b> Also in DIN format 48x24 mm	•	-	-	•	•	•	-	-	6	from 34x23	from 31x20	-10...+60	IP41	DC/AC	•

Counters Electromechanical  
(continued)

		Pulse	Time	kWh	Panel mounting	PCB mounting	Surface mounting	DIN rail mounting	Reset	Number of digits	Dimensions in mm	Panel cut-out in mm (for front panel version)	Temperature range in °C	Protection max.	Supply type	RoHS compliant
	<b>W17/AW17</b> Also in DIN format 48x24 mm	•	-	-	•	•	•	-	-	7	from 34x23	from 31x20	-10...+60	IP41	DC/AC	•
	<b>Bk14</b> Very long service life	•	-	-	•	-	-	-	manual	4	from 37x28	33,3x25	-10...+60	IP40	DC/AC	•
	<b>Bk16</b> Very long service life	•	-	-	•	-	-	-	-	6	from 37x28	from 33,3x25	-10...+60	IP40	DC/AC	•
	<b>B16</b> Very long service life	•	-	-	•	-	-	• <sup>1)</sup>	manual	6	from 50x25	50x25	-10...+60	IP40	DC/AC	•
	<b>B18</b> Very long service life	•	-	-	•	-	-	• <sup>1)</sup>	-	8	from 50x25	50x25	-10...+60	IP41	DC/AC	•
	<b>Mk14</b> Very long service life	•	-	-	•	-	-	-	manual	4	from 37x26	from 33,3x22	-10...+45	IP40	DC/AC	•
	<b>Mk16</b> Very long service life	•	-	-	•	-	-	-	manual electrical	6	from 37x26	from 33,3x22	-10...+45	IP40	DC/AC	•
	<b>Mk18</b> Very long service life	•	-	-	•	-	-	-	-	8	from 52x28	48x24	-10...+45	IP41	DC/AC	•

Hour Meters/Timers  
Electromechanical

	<b>HK47</b> High shock resistance	-	•	-	•	•	-	-	-	7	30x20 Panel mount	27x14	-10...+60	IP66	DC	•
	<b>HK07/AHK07</b> High shock and impact resistance	-	•	-	•	•	•	-	-	7	32x15 Panel mount	30x13	-10...+60	IP65	DC	•
	<b>HK07 D</b> With disable input	-	•	-	•	•	-	-	-	7	32x15 Panel mount	30x13	-10...+60	IP65	DC	•

<sup>1)</sup> with mounting frame G300000/G300004





Hour Meters/Timers Electromechanical  
(continued)

		Pulse	Time	kWh	Panel mounting	PCB mounting	Surface mounting	DIN rail mounting	Reset	Number of digits	Dimensions in mm	Panel cut-out in mm (for front panel version)	Temperature range in °C	Protection max.	Supply type	RoHS compliant
	<b>SHK07</b> High shock resistance	-	•	-	-	-	-	•	-	7	30x65	-	-10...+60	IP52	DC/AC	•
	<b>HK17</b> Small dimensions	-	•	-	•	-	-	-	-	8	from 37x26	33x22	-15...+50	IP65	DC/AC	•
	<b>H37</b> Also in DIN format 48x24 mm	-	•	-	•	-	-	• <sup>1)</sup>	-	8	from 48x24	from 45x22	-15...+50	IP65	DC/AC	•
	<b>H57/AH57</b> DIN format 48x48 mm	-	•	-	•	-	-	•	-	8	from 48x48	45x45 Ø50	-15...+50	IP65	DC/AC	•
	<b>HR47</b> Opt. run indicator	-	•	-	•	-	-	-	-	7	Ø58	Ø50	-25...+80	IP65	DC/AC	•
	<b>HR76</b> High shock resistance	-	•	-	•	-	-	-	-	6	from Ø58,7	Ø50,8	-30...+65	IP65	DC/AC	•
	<b>HB26</b> Plug-in version Long service life	-	•	-	•	-	-	• <sup>1)</sup>	manual	6	from 50x25	50x25	-15...+50	IP41	DC/AC	•
	<b>HB27</b> Long service life	-	•	-	•	-	-	• <sup>1)</sup>	-	7	from 50x25	50x25	-15...+50	IP51	DC/AC	•
	<b>SH17</b> 36 mm wide	-	•	-	-	-	-	•	-	7	36x90	-	-10...+70	IP65	DC/AC	•
	<b>HC77</b> Combination Hour meter and totaliser	•	•	-	•	-	-	-	-	2x7	from 48x48	45x45 Ø50,5	-15...+50	IP52	DC/AC	•
	<b>SHC77</b> Combination Hour meter and totalising counter	•	•	-	-	-	-	•	-	2x7	48,5x61,5	-	-15...+50	IP52	DC/AC	•
	<b>HW66</b> Combination Hour meter and energy meter	-	•	•	•	-	-	-	-	2x6	from 48x48	45x45 Ø50	-20...+55	IP65	AC	•

<sup>1)</sup> with mounting frame G300000/G300004









**Preset Counters  
for pulse and time  
Electromechanical**



	Pulse	Time	Panel mounting	PCB mounting	Surface mounting	DIN rail mounting	Presets	Reset	Number of digits	Dimensions in mm	Panel cut-out in mm (for front panel version)	Temperature range in °C	Protection max.	Supply type	Panel mounting
 <b>BVa 15</b> adding with preset constantly visible	•	-	•	-	-	• <sup>1)</sup>	1	manual	2 x 5	from 50 x 50	50 x 50	-10...+60	IP40	DC/AC	•
 <b>MVs 13</b> subtracting	•	-	•	-	-	-	1	manual electrical	3	from 39 x 55	33,3 x 50	-10...+45	IP40	DC/AC	•
 <b>MVs 16</b> subtracting	•	-	•	-	-	• <sup>1)</sup>	1	manual electrical	6	from 50 x 50	50 x 50	-10...+45	IP40	DC/AC	•
 <b>HVa 15</b> adding 999,99 h	-	•	•	-	-	• <sup>1)</sup>	1	manual	2 x 5	from 50 x 50	50 x 50	-15...+50	IP42	DC/AC	•

<sup>1)</sup> with mounting frame G300002/G300003





**Process Displays  
Process Controllers**

	Analogue input 0...20; 4...20 mA	Analogue input 0...10; 2...10V	Analogue input ± 10V	Temperature Thermocouples	Temperature Resistance thermometers (RTDs)	mV/V-sensors/ strain gauge input	Input characteristic curve CP = control points	Presets/Limit values o = optocoupler; r = relay	Display	Number of digits	Dimensions front in mm	Depth in mm	Temperature range in °C	Protection max.	Power supply	RoHS compliant
 <b>Codix 529</b> MIN/MAX detection	•	•	-	-	-	-	linear	-	LED	5	48x24	59	-10...+50	IP65	DC	•
 <b>Codix 530</b> MIN/MAX detection with totaliser	•	•	-	-	-	-	linear	-	LED	5	48x24	59	-10...+50	IP65	DC	•
 <b>Codix 565 Norm</b> MIN/MAX detection 2 limit values with totaliser, tare	•	•	•	-	-	-	12 CP	2 <sub>r</sub>	LED	6	96x48	90,5	-20...+65	IP 65	DC/AC	•
 <b>Codix 550</b> MIN/MAX detection Serial interface	•	•	•	-	-	-	24 CP	-	LED	5	96x48	83	-20...+65	IP 65	DC/AC	•
 <b>Codix 552</b> MIN/MAX detection Serial interface with totaliser	•	•	•	-	-	-	24 CP	-	LED	5	96x48	83	-20...+65	IP 65	DC/AC	•
 <b>Codix 553</b> MIN/MAX detection Serial interface 2 limit values	•	•	•	-	-	-	24 CP	2 <sub>r</sub>	LED	5	96x48	83	-20...+65	IP 65	DC/AC	•


Process Displays, Process Controllers  
(continued)

	Analogue input 0...20; 4...20 mA	Analogue input 0...10; 2...10V	Analogue input $\pm 10V$	Temperature Thermocouples	Temperature Resistance thermometers (RTDs)	mV/V-sensors/ strain gauge input	Input characteristic curve CP = control points	Presets/Limit values o = optocoupler; r = relay	Display	Number of digits	Dimensions front in mm	Depth in mm	Temperature range in °C	Protection max.	Power supply	RoHS compliant
 <b>Codix 555</b> MIN/MAX detection Serial interface 2 limit values with totaliser	•	•	•	-	-	-	24 CP	2 <sub>r</sub>	LED	5	96x48	67	-20...+65	IP 65	DC/AC	•
 <b>573</b> 2 inputs, 2 limit values or analogue output mA and V	•	•	•	-	-	-	16 CP	2 <sub>o</sub>	LED	6	96x48	129	0...+45	IP 65	DC/AC	•

Temperature Displays  
Temperature Controllers

 <b>Codix 531</b> MIN/MAX detection	-	-	-	-	Pt100 Ni100	-	-	-	LED	5	48x24	59	-20...+65	IP 65	DC	•
<b>Codix 532</b> MIN/MAX detection	-	-	-	J; K; N	-	-	-	-	LED	5	48x24	59	-20...+65	IP 65	DC	•
 <b>Codix 564 Temperature</b> MIN/MAX detection 2 limit values	-	-	-	B; E; J; K; N; R; S; T	Pt100 0...500 $\Omega$	$\pm 100mV$	12 CP	2 <sub>r</sub>	LED	6	96x48	90,5	-20...+65	IP 65	DC/AC	•
 <b>Codix 551</b> MIN/MAX detection Serial interface	-	-	-	B; E; J; K; N; R; S; T	Pt100 Pt1000 0...400 $\Omega$ 0...4000 $\Omega$	0...100 $\pm 100$	24 CP	-	LED	5	96x48	83	-20...+65	IP 65	DC/AC	•
 <b>Codix 554</b> MIN/MAX detection Serial interface 2 limit values	-	-	-	B; E; J; K; N; R; S; T	Pt100 Pt1000 0...400 $\Omega$ 0...4000 $\Omega$	0...100 $\pm 100$	24 CP	2 <sub>r</sub>	LED	5	96x48	83	-20...+65	IP 65	DC/AC	•




## Strain-gauge controllers

 <b>Codix 566 Strain gauge</b> MIN/MAX detection 2 limit values with totaliser, tare	-	-	-	-	-	1,0 mV/V 1,5 mV/V 2,0 mV/V 3,0 mV/V 3,3 mV/V	12 CP	2 <sub>r</sub>	LED	6	96x48	90,5	-20...+65	IP 65	DC/AC	•
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## Setpoint-Adjuster

 <b>Codix 533</b> Setpoint generator 0...12 V output 0...24 mA output manual or time-based operation	-	-	-	-	-	-	-	-	LED	4	48x24	59	-20...+65	IP 65	DC	•
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**Counters  
Pneumatic**

	Front panel mounting	PCB mounting	Surface mounting	DIN-rail mounting	Reset	Number of digits	Panel cut-out in mm (for front panel versions)	Signal	Protection max.	Count frequency max. in Hz	RoHS compliant
 <b>PMk14</b> Totaliser	•	-	-	-	manual	4	33,3x22	L-Signal = 1,5... 8 bar O-Signal ≤ 0,15 bar	IP41	17	•
 <b>PMk16</b> Totaliser	•	-	-	-	manual	6	48x24	L-Signal = 1,5... 8 bar O-Signal ≤ 0,15 bar	IP41	50	•
 <b>PMk18</b> Totaliser	•	-	-	-	-	8	48x24	L-Signal = 1,5... 8 bar O-Signal ≤ 0,15 bar	IP41	50	•

**Counters  
with stepper motor**

	Front panel mounting	PCB mounting	Surface mounting	DIN-rail mounting	Reset	Number of digits	Height of figures in mm	Temperature range in °C	Connection	Input signal	Nominal voltage in VDC	RoHS compliant
 <b>kWh17</b>	-	•	-	-	-	7	5x3	-40...+90	Solder pins	Rectangular or needle-shaped pulses	5 or 10	•

## **i** Accessories for Counters and Process Displays

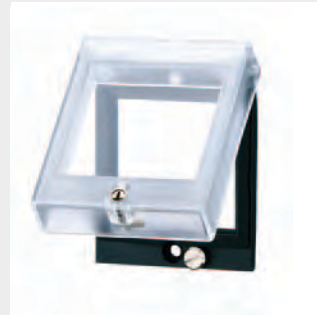
Although little remains to be added – within the comprehensive range of accessories you can still find many more ideas to adapt Kübler counters and process displays exactly to your requirements.



DIN-rail adapters



Bezel adapters



Sealing covers



Socket boxes



Mounting fixtures and supports



Software



Blind enclosures



Sealing gaskets





## Presales

Kübler – the service specialists for every industrial sector and application – supplying complete integrated solutions – globally on your doorstep

Sample Service – Fast delivery of customised versions

Selection tool  
Kübler website: Product Finder

Delivery Service: 10 by 10,  
48 h Express and Repair Service



## Kübler Service for planning dependability

Fast, reliable service and professional advice have top priority at Kübler. We are globally on your doorstep in 6 service and application centres and offer our customers planning dependability.

We deliver from stock within one day. We can manufacture your special orders within 48 hours. Moreover, 10 by 10 is our delivery offensive, which ensures that – for quantities of up to 10 pieces – you will receive all catalogue products so marked within 10 days.

Our processes and services are certified and are constantly being improved.

### 10 by 10

With our 10 by 10 Service we will manufacture 10 encoders within 10 working days.

The benefits to you: easier to order, the delivery can be calculated, flexibility for small production batches.



### Sample and Repair Service

The Kübler Service Centre can quickly manufacture special, customised versions within a short space of time. We are happy to help you with the practicalities of using our products – at your location if desired. We can carry out repairs within a maximum of 5 working days.



### Technical Hotline

Our Hotline will answer your technical questions Mon-Fri within normal working hours:



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We can process your order within 48 hours; we can ship stock items the same day.





Service Excellence provided by Kübler application specialists for target sectors

Product security – replacement models at the end of the product life-cycle

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Service Centres, globally on your doorstep:  
Advice, analysis, support during installation in over 50 countries



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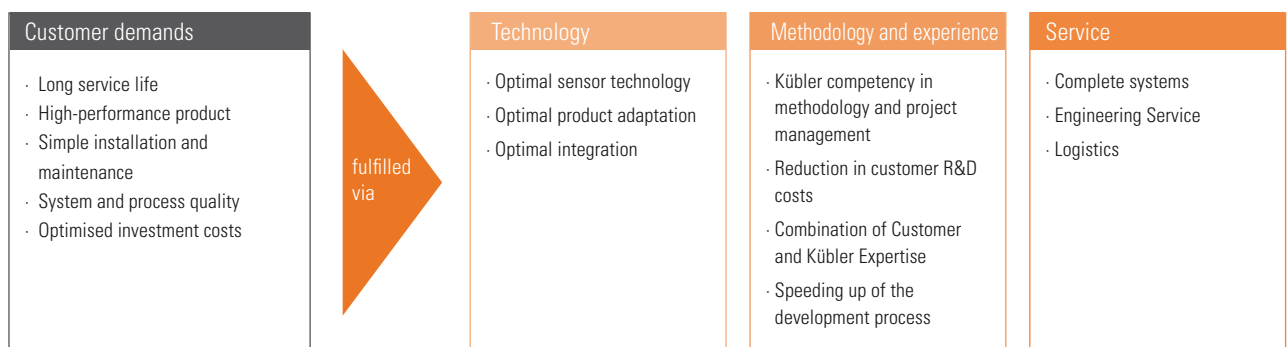
*Purchasing Manager, German Producer of Geared Motors*

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« With the KDS method our customers receive a lasting solution to lowering costs, reducing the number of models available or eliminating quality deficiencies. With KDS we develop product and engineering solutions together. The method stands out because of its structured process; this delivers innovation through experience and cooperation with the customer. »

Gebhard and Lothar Kübler, Managing Directors Kübler GmbH

### The Kübler Design System – satisfying customer demands



### The 4 phases of the Kübler Design System



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**Taiwan, R.O.C.** .....  
• Encoders, Transmission  
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Counters and Process  
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• Rotary and Linear Encoders:  
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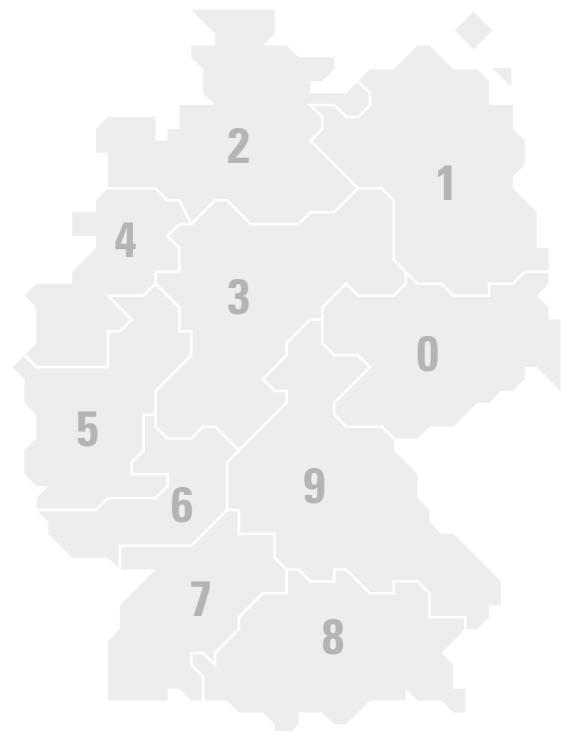
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