

Process controllers

LED process controllers

For analogue input signals (AC+DC)

Codix 565



pending

The process controller Codix 565 with totaliser function displays V and mA analogue input signals in high resolution. In addition it can monitor and control 2 limit values.

These fast displays set new standards when it comes to user friendliness. Their easy-to-read 14-segment LED display, easy-to-understand running help texts and a practical quick-start guide eliminate the need to wade through time-consuming full instruction manuals.

NEW: with optional analogue output

DC 10 ... 30 V	AC 90 ... 260 V	A...Z *	Prog	mA, V	Tara	Σ	Input	min / max	2 limit values	AC/DC
Power supply	14-segment LED display	6 LEDs	Menu-driven programming	Display linearization	Tare function	Totaliser-Function				Galvanic isolation

15 bit	-20°...+65°C	DIN 96 x 48	Installation in mosaic systems	Operation with gloves	mA, V
Resolution	Temperature range	DIN front bezel			

User-friendly

- Practical quick-start guide for setting the parameters and operating the device
- Help text as running text
- Easy-to-read 14-segment LED display, 6 digits 14 mm [0.55] high
- Simple programming via 4 keys on the front
- One front key as well as 2 additional inputs can be programmed for specific applications
- Customer-specific characteristic (linearization) curve via 12 control points for all measurement signal inputs
- MIN/MAX memory function, individually resettable

Powerful

- Sampling rate of 10 readings per second
- Time-controlled totaliser function for totalising the measured values. Can be reset separately.
- 2 relay outputs (changeover contacts) for limit monitoring with hysteresis and ON/OFF delay function for current measured or totaliser values
- Analogue output for the current measured value, MIN-value, MAX-value or totalizer value
- Auxiliary sensor power supply 15 V DC / 25 mA, also for 2-wire transmitters
- Inputs and outputs galvanically isolated
- Digital filter (first-order) for smoothing display fluctuation with unstable input signals
- Tare function

Order code

6.56|5|.010.|X|0X

a Input type
5 = Analogue input signal ¹⁾

b Outputs
0 = relays ¹⁾

c Power supply
0 = 90 ... 260 V AC ¹⁾
3 = 10 ... 30 V DC ¹⁾

d Further outputs (optional)
0 = none ¹⁾
9 = analogue output
(only for DC version)

Delivery specification:

- Process device
- Mounting clip
- Gasket
- Instruction manual, multilingual
- 1 sheet of self-adhesive symbols
- Quick-start guide

Practical quick-start guide for setting the parameters and operating the device.

The guide can be affixed directly to the front of the unit and can be removed and re-applied as required.



¹⁾ Stock types

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Accessories		Order-No.	
Mounting frame with cut-out 92 x 45 mm [3.62 x 1.77]	For snap-on mounting on 35 mm top-hat DIN rail, for counters 96 x 48 mm [3.78 x 1.89] grey	G300005	
Suitable gaskets as well as further accessories can be found in the accessories section or in the accessories area of our website at: www.kuebler.com/accessories .			
General technical data		Electrical characteristics	
Display	6-digit, 14 segment LED	Power supply	AC supply 90 ... 260 V AC / max. 9 VA 50 / 60 Hz ext. fuse protection: T 0.1 A
Digit height	14 mm [0.55]	DC supply	10 ... 30 V DC / max. 3.8 W with galvanic isolation and reverse polarity protection ext. fuse protection: T 0.4 A
Display range	-199999 ... 999999, with leading zero blanking	Mains hum suppression	50 Hz or 60 Hz programmable
Data retention	> 10 years, EEPROM	Sensor power supply	AC supply 24 V DC ±15 %, 30 mA 15 V DC ±1 %, 25 mA DC supply 15 V DC ±1 %, 25 mA
Operation	5 keys	EMC	Emitted interference EN 55011 class B Immunity to interference EN 61000-6-2 with shielded signal and control cables
Operating temperature	-20°C ... +65°C [-4°F ... +149°F] (non-condensing)	Device safety	Designed to EN 61010 part 1 Protection class 2 Application area Pollution level 2
Storage temperature	-25°C ... +75°C [-13°F ... +167°F]		
Relative humidity (non-condensing)	R.H. 93 % at +40°C [+ 104°F]		
Altitude	up to 2000 m [6562 feet]		
Mechanical characteristics		Measuring signal inputs	
Housing	Panel mount housing to DIN 43700, RAL 7021	Sampling rate	10 readings/sec
Dimensions	96 x 48 x 102 mm [3.78 x 1.89 x 4.02]	Voltage input	
Panel cut-out	92 +0.8 x 45 +0.6 mm [3.62 +0.032 x 1.77 +0.024]	Input signal	0 ... 10 V, 2 ... 10 V, ± 10 V
Installation depth	approx. 92 mm [3.62] incl. terminals	Measuring range	-10.5 ... +10.5 V
Weight	approx. 180 g [6.34 oz] with analogue output 200 g [7.06 oz]	Resolution	< 0.4 mV (±15 bit)
Protection	IP65 (front side)	Measuring accuracy at 23°C [73°F] (%) of range	typ. 0.02 % / max. ≤ 0.05 %
Housing material	Polycarbonate UL94 V-2	Temperature drift	< 100 ppm / K
Vibration resistance	acc. to EN 60068-2-6	Input resistance	1 MΩ
	10 - 55 Hz / 1 mm / XYZ 30 min in each direction	Max. voltage	± 30 V
Shock resistance	acc. to EN 60068-2-27	Current input	
	100G / XYZ 3 times in each direction	Input signal	0 ... 20 mA, 4 ... 20 mA
	acc. to EN 60068-2-29	Measuring range	-0.5 ... 21 mA
	10G / 6 ms / XYZ 2000 times in each direction	Resolution	1 μA (> 14 bit)
Connections		Measuring accuracy at 23°C [73°F] (%) of range	typ. 0.02 % / max. ≤ 0.05 %
Power supply and outputs	Plug-in screw terminal, 8-pin, RM 5.00, core ø max. 2.5 mm² [approx. AWG 13]	Temperature drift	< 100 ppm / K
Signal and control inputs	Plug-in screw terminal, 9-pin, RM 3.50, core ø max. 1.5 mm² [approx. AWG 15]	Input resistance	22 Ω + PTC 25 Ω
		Voltage drop	approx. 1.8 V at 20 mA
		Max. current	60 mA
Control inputs MPI 1 / MPI 2			
Quantity	2 optocouplers		
Function	programmable		
Switching levels	LOW < 2 V HIGH > 4 V (max. 30 V)		
Pulse length	> 100 ms		

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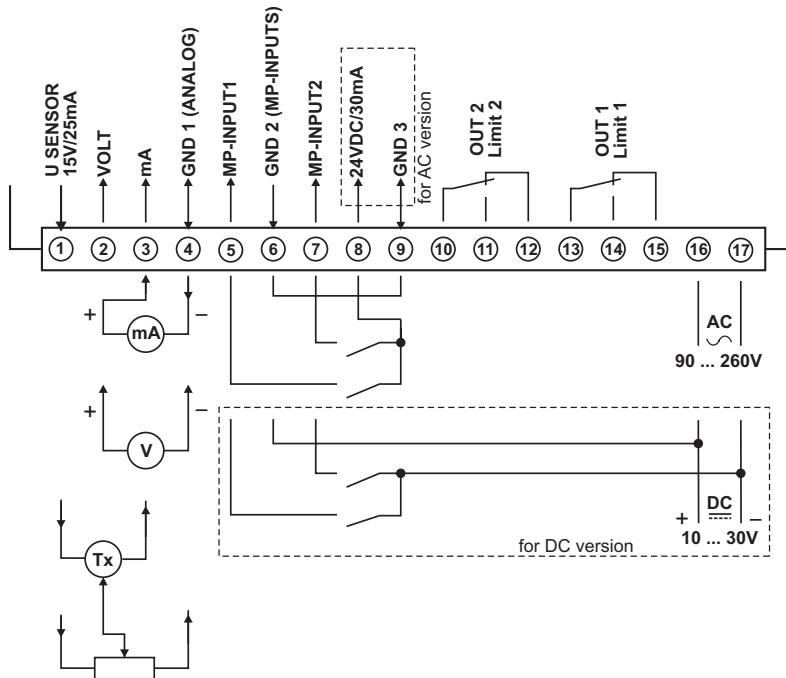
Alarm outputs

Relays	changeover contacts
Switching voltage	max. 250 V AC / 125 V DC min. 5 V AC / 5 V DC
Switching current	max. 5 A AC / 5 A DC min. 10 mA DC
Switching capacity	max. 1250 VA / 150 W

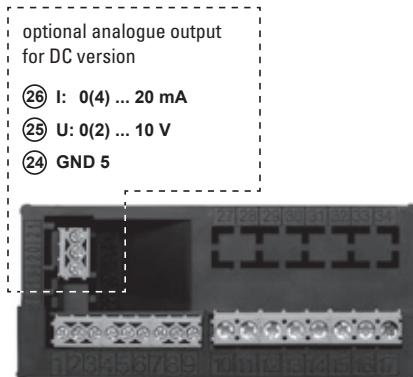
Analogue output (optional - only for DC version)

Output ranges	0 (4) ... 20 mA / 0 (2) ... 10 V
Load	current output $\leq 500 \Omega$ voltage output $\geq 2000 \Omega$
Resolution	15 bit
Update time (basic device measuring rate)	100 ms
Temperature drift	$\leq 100 \text{ ppm/K}$
Accuracy	$\pm 0.1\%$ of the output range high value
Output ripple	$\leq 10 \text{ mV}$
Isolation voltage	500 V AC for 1 minute or 1 kV DC for 1 second

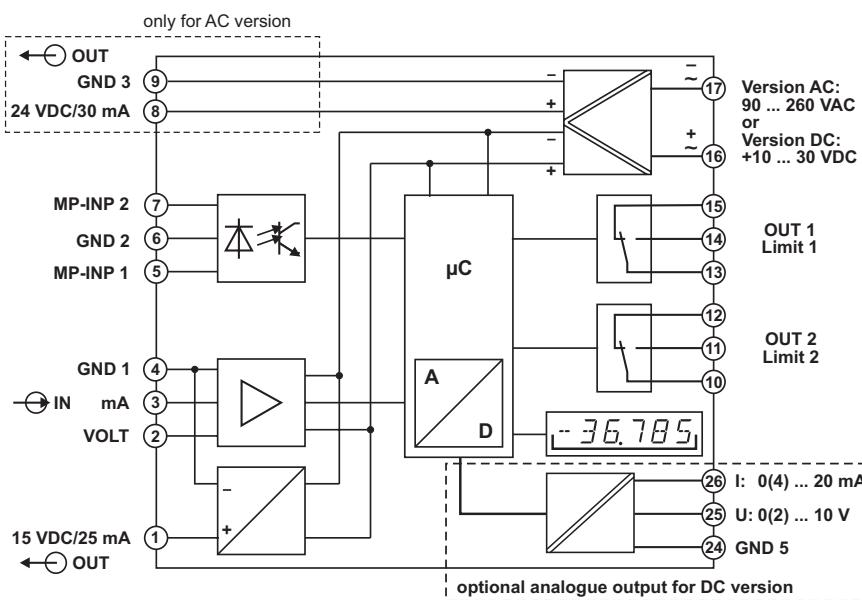
Terminal assignment



Rear side view



Block diagram



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Dimensions

Panel cut-out
92 mm $^{+0.8}$ x 45 mm $^{+0.6}$

