

Temperature displays

LED temperature displays

Pt100 and Ni100 input (DC)

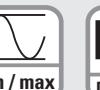
Codix 531



Cost-effective temperature display for front panel mount with bright 5-digit LED display for values in °C or °F.

For very accurate temperature measurements using Pt100 and Ni100 resistance thermometers in 2, 3 or 4-wire technology, with permanently stored characteristic curves.

Minimum and maximum value detection for temperature monitoring over long periods of time.

 DC 10 ... 30 V	 2, 3, 4		 Prob	 AC/DC	 -20° +65°	 IP65	 min / max	 DIN 48 x 24	 123... 5 LED
Power supply	2-, 3-, 4-wire technology	Pt100 / Ni100	Menu-driven programming	Galvanic isolation	Temperature range	High protection level	Min / Max value detection	DIN front bezel	LED display

Product features

- Input range: resistance thermometer
- Compact and low-price temperature display
- Easy programming and operation
- Modern industrial design
- 5 measurements/second

Benefits

- Temperature display in °C or °F
- MIN/MAX value acquisition and data backup in case of power off
- Galvanic isolation with protection against incorrect polarity
- Screw terminal connection: pitch 5 mm
- Display hold input

Order specifications

Temperature display for Pt100 and Ni100 resistance thermometer

6.531.012.300 ¹⁾

Delivery specification

- Digital display
- Mounting clip
- Gasket
- Instruction manual, multilingual
- Front bezel for screw mounting (T008181)
56 x 40 mm, panel cut-out 50 x 25 mm
- Front bezel for clip mounting (T008180)
53 x 28 mm, panel cut-out 50 x 25 mm
- 1 set of self-adhesive symbols

Accessories

Order-No.

Adapter front bezel, 72 x 36 mm	For cut-out 68 x 33 mm to cut-out 45 x 22.2 mm, for counters 48 x 24 mm, as set	black and silver anodised	162704 Set
Adapter front bezel, 48 x 48 mm	For cut-out 45 x 45 mm to cut-out 45 x 22.2 mm, with clip mounting for counters 48 x 24 mm	black	T008883
Adapter front bezel, 60 x 50 mm	For cut-out 54 x 29 mm to cut-out 45 x 22.2 mm, with screw mounting and gasket for counters 48 x 24 mm	black	N003001
Transparent cover, lockable, IP65	For cut-out 54 x 29 mm, with screw mounting to front bezel F1B or adapter front bezel N003001, for counters with cut-out 50 x 25 mm or 45 x 22.2 mm		N003002
Sealing cover type K1, IP65	Suitable for front plate 60 x 50 mm with screw mounting of electromechanical counters and via adapter front bezel N003001, for counters 48 x 24 mm		G008301
Mounting frame with cut-out 50 x 25 mm via separate adapter 45 x 22.2 mm	For snap-on mounting on 35 mm top-hat DIN rail, for counters 53 x 28 mm and via separate adapter (T008180) for counters 48 x 24 mm	chromated	G300004

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.

1) Stock types

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General technical data

Display	5 digits, red 7 segment LED display; 8 mm high
Display refresh	1 ... 2 times per second
Data backup	EEPROM
Operating temperature	-20°C ... +65°C (non-condensing)

Electrical characteristics

Power supply	10 ... 30 V DC, galvanically isolated with integrated reverse polarity protection
Current consumption	max. 40 mA
Circuit type	2-wire, 3-wire and 4-wire technology, programmable
EMC	Emitted interference EN 55011 class B Immunity to interference EN 61000-6-2

Mechanical characteristics

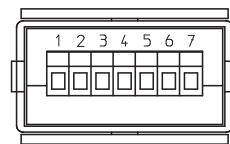
Housing	front panel mount 48x24 mm acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g
Connections	screw terminal, pitch 5.08 mm, 7 pin

Measuring signal inputs

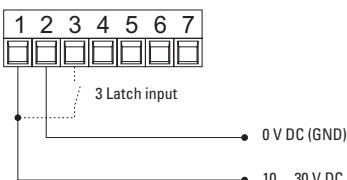
Measuring rate	5 measurements / second			
Input	Pt100 resistance thermometer Ni100 resistance thermometer with sensor breakage monitoring			
Control inputs	HIGH	4 ... 30 V DC	LOW	0 ... 2 V DC
Supply current		1 mA		
Supply line	2-wire 3-wire, 4-wire	max. 20 Ω, programmable max. 20 Ω, no balancing required		
Temperature ranges	Pt100 acc. to DIN IEC 751 Ni100 acc. to DIN 43760	-199.9°C ... +850.0°C -327.8°F ... +1562.0°F -60.0°C ... +250.0°C -76.0°F ... +482.0°F		
Resolution		0.1°C (0.1°F) or 1°C (1°F)		
Linearity error	Pt100 Ni100	< 0.1 % for the whole measuring range at an operating temperature of 20°C < 0.2 % for the whole measuring range at an operating temperature of 20°C		
Temperature drift		0.1 K/K _{Ambient}		

Terminal assignment

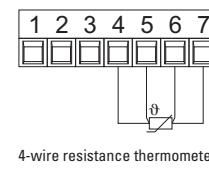
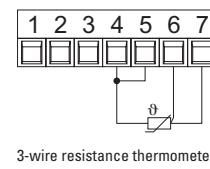
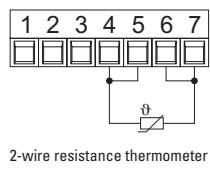
1	2	3	4	5	6	7
10 ... 30 V DC	0 V DC (GND)	Latch input	Pt100/Ni100	Pt100/Ni100	Pt100/Ni100	Pt100/Ni100



Connection power supply and latch input



Connection resistance thermometer Pt100/Ni100



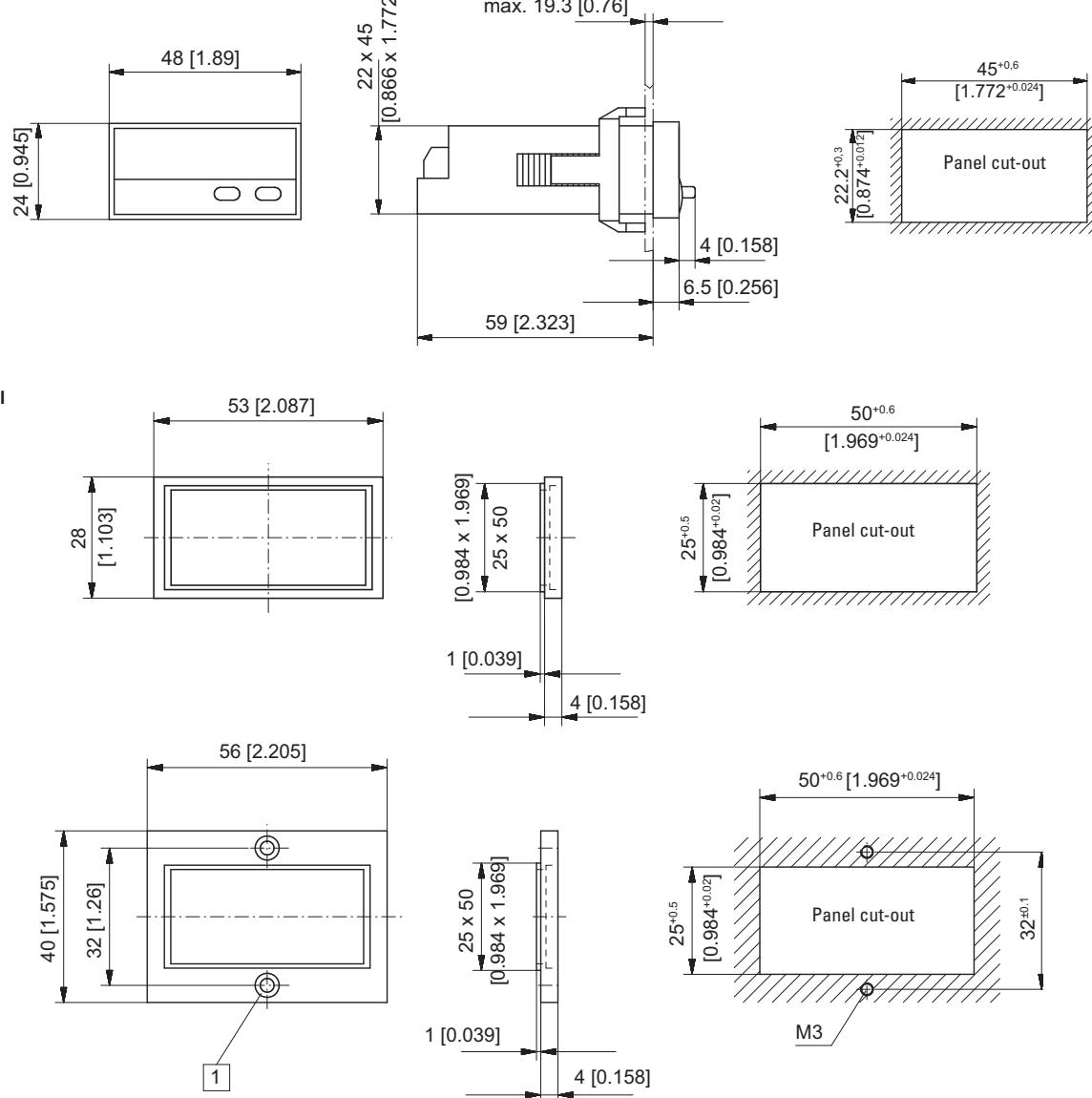
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Dimensions



[1] Countersinking Af3,
DIN 74