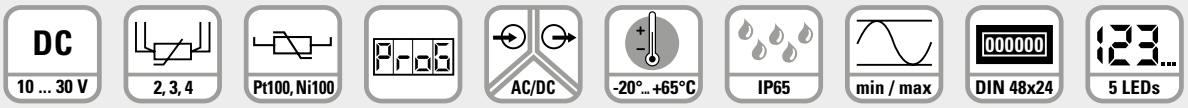
LED temperature displays | Pt100 and Ni100 input (DC) | Codix 531



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.



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 no.

Temperature display for Pt100 and Ni100 resistance thermometer	**6.531.012.300**

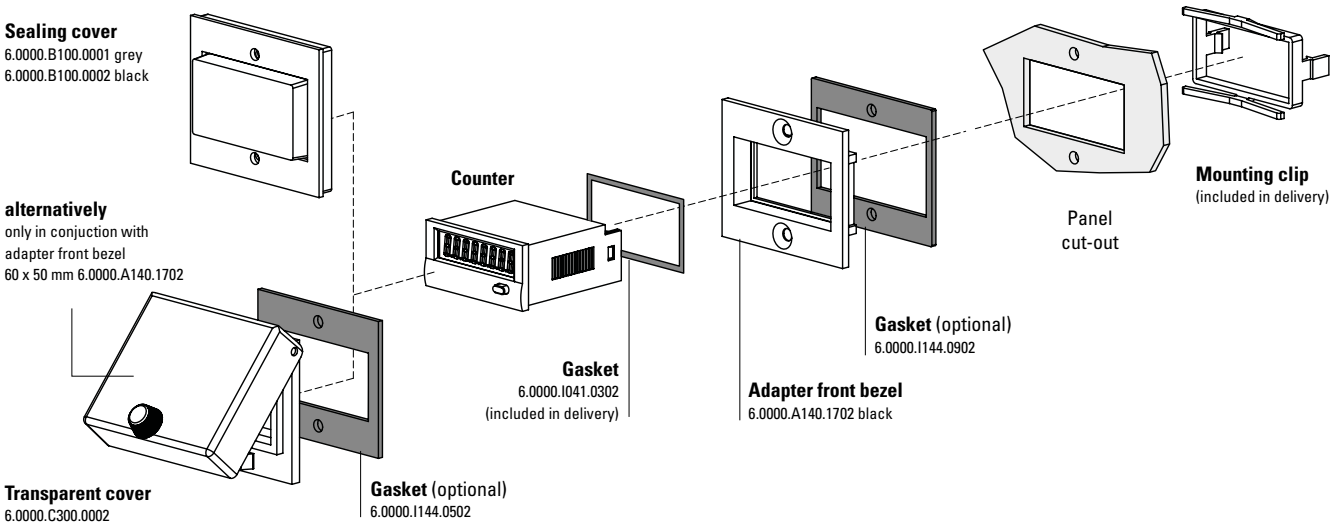
Delivery specification

- Setpoint adjuster
- Mounting clip
- Gasket
- Front bezel for screw mounting (6.0000.A110.0503) 56 x 40 mm [2.20 x 1.57"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- Front bezel for clip mounting (6.0000.A080.0503) 53 x 28 mm [2.09 x 1.10"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- 1 set of self-adhesive symbols
- Instruction manual, multilingual

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Accessories / Mounting examples



		Type / size	Description		Order no.	suitable gasket
Adapter front bezel		**53 x 28 mm [2.09 x 1.10“]**	for cut-out 50 x 25 mm [1.97 x 0.98“] to cut-out 45 x 22.2 mm [1.77 x 0.94“]	black anthracite	**6.0000.A080.0502** 6.0000.A080.0503	**6.0000.I082.0502**
		**56 x 40 mm [2.20 x 1.57“]**	for cut-out 50 x 25 mm [1.97 x 0.98“] to cut-out 45 x 22.2 mm [1.77 x 0.94“] screw mounting	black anthracite	**6.0000.A110.0502** 6.0000.A110.0503	**6.0000.I113.0502**
		**72 x 36 mm [2.83 x 1.42“]**	for cut-out 68 x 33 mm [2.68 x 1.30“] to cut-out 45 x 22.2 mm [1.77 x 0.94“]	black and silver anodised as set	**6.0000.A210.1802**	–
		**60 x 50 mm [2.36 x 1.97“]**	for cut-out 54 x 29 mm [2.13 x 1.14“] to cut-out 45 x 22.2 mm [1.77 x 0.94“] screw mounting	black	**6.0000.A140.1702**	**6.0000.I144.0902**
		**48 x 48 mm [1.89 x 1.89“]**	for cut-out 45 x 45 mm [1.77 x 1.77“] to cut-out 45 x 22.2 mm [1.77 x 0.94“]	black	**6.0000.A040.0402**	–
Sealing cover IP65		**K1**	only in conjuction with adapter front bezel 60 x 50 mm 6.0000.A140.1702	transparent / grey transparent / black	**6.0000.B100.0001** **6.0000.B100.0002**	–
Transparent cover IP65		**1 Dv** (mounted on bezel)	cover lockable, for cut-out 54 x 29 mm [2.13 x 1.14“], only in conjuction with adapter front bezel 60 x 50 mm 6.0000.A140.1702	transparent / black	**6.0000.C300.0002**	**6.0000.I144.0502**
Gasket counter			48 x 24 mm (for installation in adapter front bezel) 49 x 25 mm		6.0000.I041.0302 6.0000.I063.0302	
Mounting frame		**cut-out 50 x 25 mm [1.97 x 0.98“]**	via adapter 6.0000.A080.0503 for snap-on mounting on 35 mm [1.38“] top-hat DIN rail	chromated	**6.0000.F300.0006**	–
Enclosure blind		**48 x 24 mm [1.89 x 0.94“]**	for cut-out 45 x 22.2 mm [1.77 x 0.94“] and cut-out 50 x 25 mm [1.97 x 0.98“]	anthracite	**6.0000.H100.0003**	–

incl. in delivery

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LED temperature displays | Pt100 and Ni100 input (DC) | Codix 531

Technical data

General technical data

Display	5 digits, red 7 segment LED display; 8 mm [0.32"] high
Display refresh	1 ... 2 times per second
Data backup	EEPROM
Operating temperature	-20 °C ... +65 °C [-4 °F ... +149 °F] (non-condensing)

Electrical characteristics

Supply voltage	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

Mechanical characteristics

Housing	front panel mount 48 x 24 mm [1.89 x 0.94"] acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]
Connections	screw terminal, pitch 5.08 mm [2"] , 7 pin

Measuring signal inputs

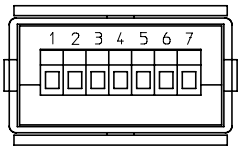
Measuring rate		5 measurements / second
Input		Pt100 resistance thermometer Ni100 resistance thermometer with sensor breakage monitoring
Control inputs	HIGH LOW	4 ... 30 V DC 0 ... 2 V DC
Supply current		1 mA
Supply line	2-wire 3-wire, 4-wire	max. 20 Ω, programmable max. 20 Ω, no balancing required
Temperature ranges		
	Pt100 acc. to DIN IEC 751	-199.9 °C ... +850.0 °C [-327.8 °F ... +1562.0 °F]
	Ni100 acc. to DIN 43760	-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 [68 °F] < 0.2 %for the whole measuring range at an operating temperature of 20 °C [68 °F]
Temperature drift		0.1 $K/K_{Ambient}$

Approvals

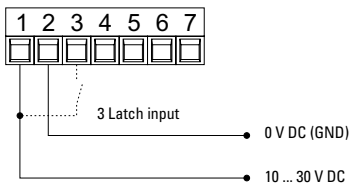
UL compliant in accordance with	File no. E128604
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU

Terminal assignment

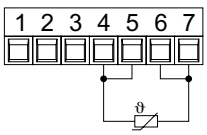
1	2	3	4	5	6	7
10 ... 30 V DC	0 V DC (GND)	Latch input	Pt100/Ni100	Pt100/Ni100	Pt100/Ni100	Pt100/Ni100



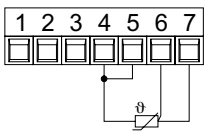
Connection supply voltage and latch input



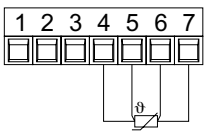
Connection resistance thermometer Pt100/Ni100



2-wire resistance thermometer



3-wire resistance thermometer



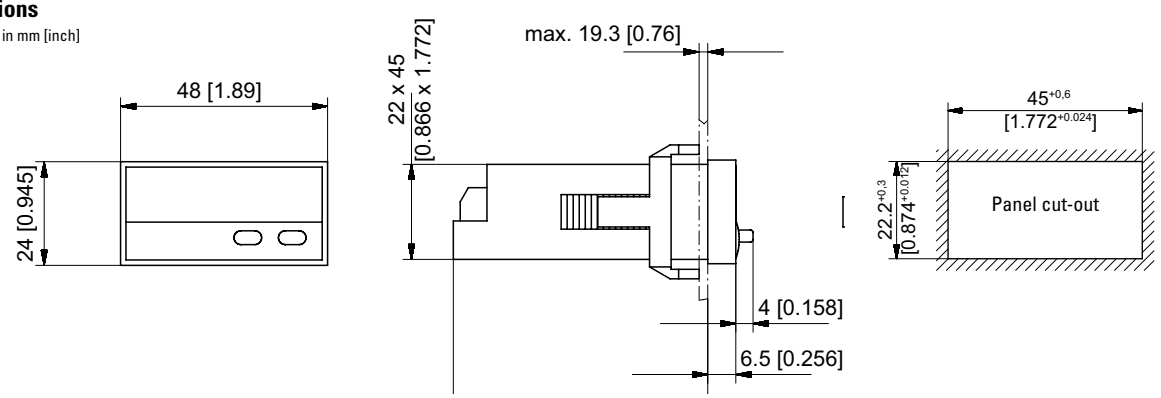
4-wire resistance thermometer

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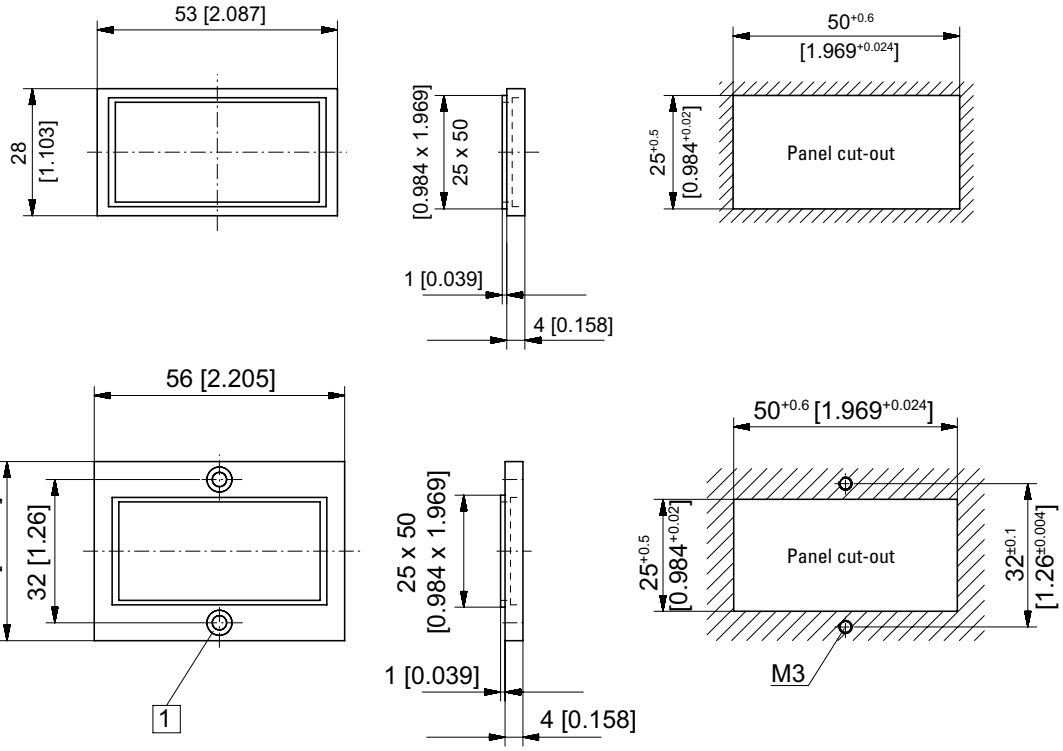
LED temperature displays | **Pt100 and Ni100 input (DC)** | **Codix 531**

Dimensions

Dimensions in mm [inch]



Front bezel



1 Countersinking Af3, DIN 74

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