

CODIX 531 for Pt100 and Ni100 resistance thermometers



Your benefit

- 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

Input range

Resistance thermometer

More advantages

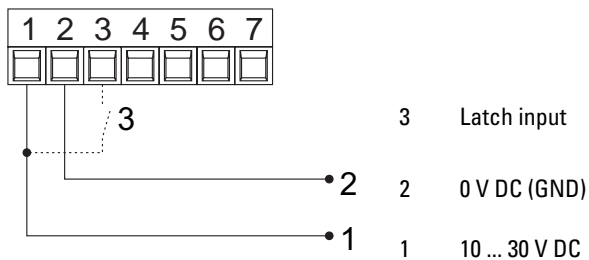
- Compact and low-price temperature display
- Easy programming and operation
- Modern industrial design
- 5 measurements/second

Technical data

Supply voltage:	10 ... 30 V DC, galvanically isolated with integrated protection against incorrect polarity	Input:	Pt100-Resistance thermometer Ni100-Resistance thermometer with sensor breakage monitoring
Current consumption:	max. 40 mA	Control inputs:	High: 4 ... 30 V DC Low: 0 ... 2 V DC
Display:	5-digit display, red 7-segment LED's; height 8 mm [0.315"]	Supply current:	1 mA
Measuring rate:	5 measurements/second	Supply line:	2-wire: max 20 Ω, programmable 3-wire, 4-wire: max 20 Ω, no balancing required
Display refresh:	1 ... 2 times per second	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
Data backup:	EEPROM	Resolution:	0.1°C (0.1 °F) or 1°C (1 °F)
Housing:	housing for control panel 48 x 24 mm [1.89 x 0.945"], acc. to DIN 43 700; RAL 7021, dark grey	Linearity error:	Pt100 < 0.1 % for the whole measuring range at an ambient temperature of 20 °C [68 °F] Ni100 < 0.2 % for the whole measuring range at an ambient temperature of 20 °C [68 °F]
Ambient temperature:	-20 ... +65 °C [-4 °F ... +149 °F]	Temperature drift:	0.1 K/K _{Ambient}
EMC:	according to EC EMC directive 89/36/EEC	Connections:	screw terminal, pitch 5.08 mm [0.2"], 7 pin
Interference emissions:	EN 61 000-6-4/EN 55 011 Class B		
Interference resistance:	EN 61 000-6-2		
Protection:	IP65 (front)		
Weight:	approx. 50 g [1.764 oz]		
Circuit type:	2-wire, 3-wire and 4-wire connection technique, programmable		

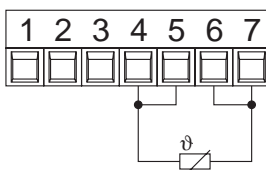
Electrical connection

Connection supply voltage and Latch input

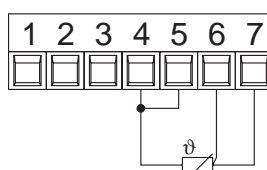


Resistance thermometer Pt100/Ni100

2-wire resistance thermometer



3-wire resistance thermometer



4-wire resistance thermometer

