531 Series

Features

- Compact and Low-Cost Temperature Display
- Temperature Display in °C or °F
- MIN/MAX Value Retention
- EEPROM Data Backup on Power Failure
- Galvanic Isolation with Reverse Polarity Protection
- Screw Terminal Connectors: pitch 5 mm
- Display Hold Input

Specifications:

Supply voltage: 10-30 V DC, galvanically isolated with

reverse polarity protection

Current draw: max. 40 mA

Display: 5-digit display, red LED's; height 8 mm

Measuring rate: 5 measurements/second Display refresh: 1-2 times per second

Data backup: EEPROM

Housing: housing for control panel 48 x 24 mm acc. to

DIN 43 700; RAL 7021, dark grey

Ambient temp.: -20 to +65 °C

EMC: according to EC EMC directive 89/36/EEC

Interference emissions:

EN 50081-2/EN 55 011 Class B

Interference resistance:

EN 6100-6-2 Protection: NEMA4 / IP65 (front)

Weight: app. 50 g

Circuit type: 2-wire, 3-wire and 4-wire connection

technique, programmable

Input: Pt100 or Ni100 RTD with sensor breakage

monitoring

Temperature Display for Pt100 and Ni100 RTD's



- Easy Programming and Operation
- 5 Measurements/second

Control inputs: High: 4-30 V DC, Low: 0-2 V DC

Supply current: 1 mA

Supply line: 2-wire: max 20 Ω , programmable 3-wire, 4-

wire: max 20 Ω , no balancing required

Temp. ranges: Pt100 acc. to DIN IEC 751:

-199.9 °C to +850.0 °C -327.8 °F to +1562.0 °F

Ni100 acc. to DIN 43760:

-60.0 °C to +250.0 °C -76.0 °F ... +482.0 °F

Resolution: $0.1^{\circ}\text{C} (0.1^{\circ}\text{F}) \text{ or } 1^{\circ}\text{C} (1^{\circ}\text{F})$

Linearity error: Pt100 < 0.1 % for entire measuring range at

an ambient temperature of 20 °C

Ni100 < 0.2 % for entire measuring range at

an ambient temperature of 20 °C

Temp. drift: 0.1 K/KAmbient

Order #:

531 = Temperature Display with RTD Input Accessories

N7 - Explosion proof housing (see accessories section) E200 - Outdoor Enclosure (see accessories section)







