

OM 47RTD



- 4 1/2 digit projection
- Pt 100
- ±199,9°C/-200,0°...850,0°C
- 2, 3 or 4 wire connection
- Size of DIN 96 x 48 mm
- Power supply 230 VAC

Extension

Dual comparator • Analogue output • Power supply 24 VAC, 110 VAC, 8...32 VDC

Description

The OM 47RTD model is a 4 1/2 digit panel thermometer for sensors Pt 100 with great accuracy and stability.

Operation

In its basic version the instrument is designed for simple measurement without further control. In the version with dual comparator their setting is performed by two control keys and potentiometers.

Placement of the decimal point is selectable by a shorting link under the front panel.

Calibration

Compensation upon 2-wire connection is performed by a trimmer under the front panel.

Options

Dual comparator serves to monitor two limit values with relay output. The limits have adjustable hysteresis. Reaching the preset limits (top over/bottom under) is signalled by LED and at the same time by the switch-on of the relevant relay.

Analogue outputs will find their place in applications where further evaluating or processing of measured data is required in external devices. We offer several types of current and voltage outputs. The analogue output value corresponds with the input signal.



Technical data

MEASURING RANGE

±199,9°C/-200,0°...850,0°C

100 Ohm platinum link with (3850 ppm/°C) 500 Ohm platinum link with (3850 ppm/°C) Type:

1 000 0hm platinum link with (3850 ppm/°C)

Connection:

PROJECTION

Display: ±19999, red or green 7-segment LED, digit height 14 mm

Decimal point: adjustable - by shorting link

Brightness:

INSTRUMENT ACCURACY

50 ppm/°C ±0,1 % of range Tempco: Accuracy: 2,5 measurements/s at 25°C and 40 % r.h. Rate: Calibration:

COMPARATOR

analogue, adjustable by potentiometers under the front panel ± 19999

Type: Limit 1 and 2 < 2 % of range Hysteresis:

2 relays with switch-on contact (250 VAC/30 VDC, 3 A) Outputs:

ANALOGUE OUTPUTS

(non)isolated, analogue output corresponds with the input signal Type:

Non-linearity: 0,3 % of range 100 ppm/°C Tempco: 0...2 V, 0...5 V, 0...10 V Voltage:

0/4...20 mA (compensation of conduct up to 600 0hm) Current:

POWER SUPPLY

24/110/230 VAC/50 Hz 8...32 VDC/max. 300 mA, isolated

MECHANIC PROPERTIES

Material: Noryl GFN2 SE1, incombustible UL 94 V-I

Dimensions 96 x 48 x 110 mm Panel cut-out: 92 x 45 mm

OPERATING CONDITIONS

connector terminal board, conductor section up to 2,5 mm² Connection:

Stabilization period: within 15 minutes after switch-on

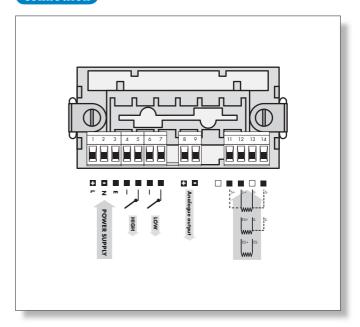
Working temperature: 0°...60°C Storage temperature: -10°...85°C

IP40, upon request IP64 (front panel only) Covering:

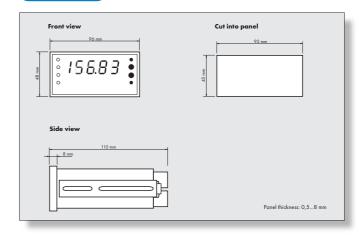
Construction: safety class I Electrical safety: EN 61010-1, A2 Overvoltage category: for pollution degree II

III. - instrument power supply, relay outputs (300 V)
II. - input, output (300 V)
EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2 EMC:

Connection



Dimensions



Order code

