

OM 47RTD



- 4 1/2 digit projection
- Pt 100/500/1 000
- ±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

Options

Dual comparator • Analogue output • Power supply 24 VAC, 110 VAC, 10...30 VDC

Description

The OM 47RTD model is a 4 $^{1}/_{2}$ digit panel thermometer for sensors Pt 100/500/1 000 with great accuracy and stability.

Operation

In its basic version the instrument is designed for simple measurement without further control. In version with dual comparator its 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

Pt 100/500/1 000 - 3 860 ppm/°C (EU) Type:

Connection: 2, 3 or 4 wire

PROJECTION

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

Display: Decimal point: fixed **Brightness:**

INSTRUMENT ACCURACY

Tempco: 100 ppm/°C ±0,2 % of range 2,5 measurements/s Accuracy: Rate: Resolution: Calibration: at 25°C and 40 % r.h.

COMPARATOR

analogue, adjustable by potentiometers under the front panel Type:

Limit 1 and 2

Hysteresis: < 2 % of range, adjustable by potentiometers inside the instrument

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

ANALOGUE OUTPUTS

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

Non-linearity: 0,3 % of range Tempco: 100 ppm/°C

Rate: response to change of value < 40 ms

Voltage: 0...2 V, 0...5 V, 0...10 V

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

POWER SUPPLY

24/110/230 VAC, 50/60 Hz, ±10 %, 5 VA $10...30\ \text{VDC/max}.\ 300\ \text{mA},\ (24\ \text{VDC/110}\ \text{mA}),\ isolated$

MECHANIC PROPERTIES

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

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

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

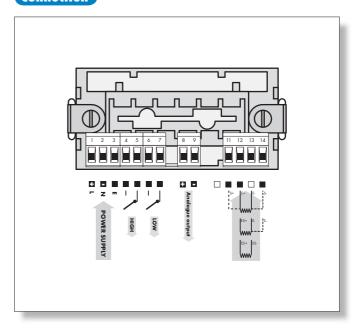
IP40, upon request IP64 (front panel only) Covering:

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

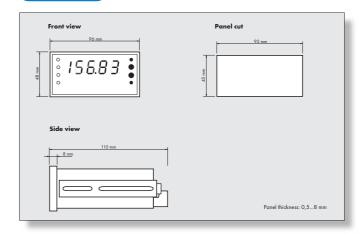
III. - instrument power supply, relay outputs (300 V)
II. - input, output (300 V)

EMC: EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

Connection



Dimensions



Order code

