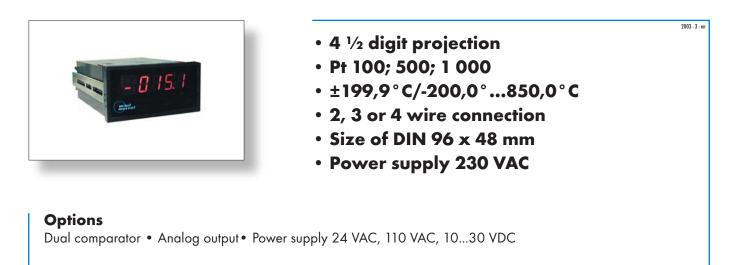
THERMOMETERS

OM 47RTD



Description

The OM 47RTD model is a 4 $\frac{1}{2}$ 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.

Analog 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 analog 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)	
	2, 3 or 4 wire	

Connection: PROJECTION

Type:

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

INSTRUMENT ACCURACY

Tempco:	100 ppm/°C
Accuracy:	±0,2 % of range + 1 digit
Rate:	2,5 measurements/s
Calibration:	at 25°C and 40 % r.h.

COMPARATOR

Туре:	analog, adjustable by potentiometers under the front panel
Limit 1 and 2	±19999
Hysteresis:	< 2 % of range, adjustable by potentiometers inside the instrumer
Outputs:	2 relays with switch-on contact (250 VAC/30 VDC, 3 A)

ANALOG OUTPUTS

Type:	(non)isolated, analog 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:	02 V, 05 V, 010 V
Current:	0/420 mA (compensation of conduct up to 600 0hm)
POWER SUPPLY	

24; 110; 230 VAC, 50/60 Hz, ±10 %, 5 VA 10...30 VDC/max. 300 mA, (24 VDC/110 mA), isolated

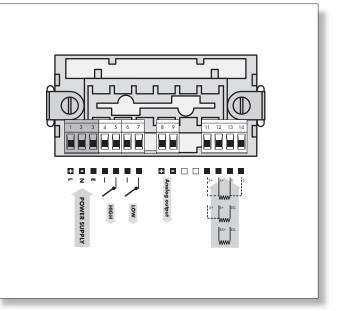
MECHANIC PROPERTIES

Material: Noryl GFN2 SE1, incombustible UL 94 V-1 Dimensions: 96 x 48 x 110 mm Panel cut: 92 x 45 mm

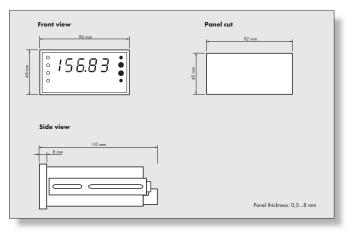
OPERATING CONDITIONS

Connection:	connector terminal board, conductor section up to 2,5 mm ²
Stabilization period:	within 15 minutes after switch-on
Working temperature:	0°60°C
Storage temperature:	-10°85°C
Covering:	IP40, upon request IP64 (front panel only)
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)
EMC:	EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

Connection



Dimensions



Order code

