

OM 36RTD



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

Extension

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

Description

The OM 36RTD model is a 3 1/2 digit panel thermometer for sensors Pt 100 with great accuracy and stability.

Operation

The instrument is designed for simple measurement without further control.

Calibration

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

Options

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 or voltage non-isolated outputs. The analogue output value corresponds with the input signal.

Technical data

MEASURING RANGE

	±199,9°C/-200°...850°C
Type:	100 Ohm platinum link with $\alpha=0,00385$ Ohm/Ohm/°C 500 Ohm platinum link with $\alpha=0,00385$ Ohm/Ohm/°C 1000 Ohm platinum link with $\alpha=0,00385$ Ohm/Ohm/°C
Connection:	2, 3 or 4 wire

PROJECTION

Display:	±1999, red or green 7-segment LED, digit height 14 mm
Decimal point:	fixed
Brightness:	adjustable - by potentiometer under the front panel

INSTRUMENT ACCURACY

Tempco:	100 ppm/°C
Accuracy:	±0,1 % of range
Rate:	1,2/2,5/5/10 measurements/s
Calibration:	at 25°C and 40 % r.h.

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 < 100 ms
Voltage:	0...2 V, 0...5 V, 0...10 V
Current:	0/4...20 mA (compensation of conduct up to 600 Ohm)

POWER SUPPLY

	24/110/230 VAC/50 Hz
	12...24 VDC/150 mA (without analogue output)
	8...32 VDC/max. 300 mA, (24 VDC/max. 150 mA), isolated

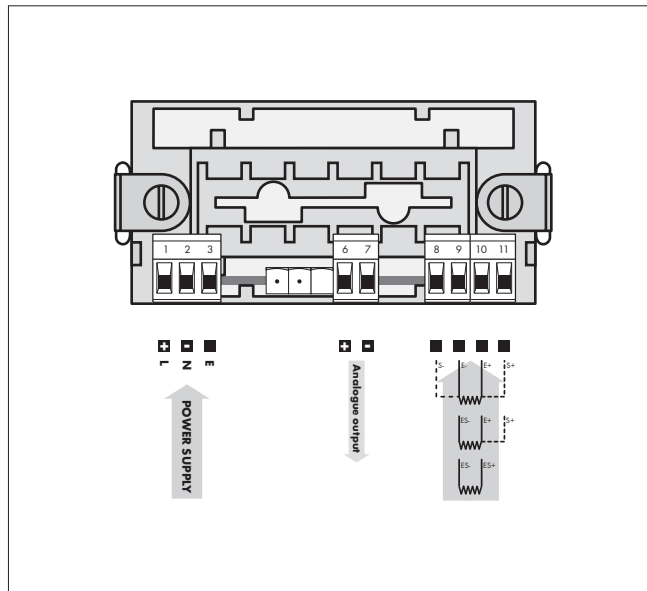
MECHANIC PROPERTIES

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

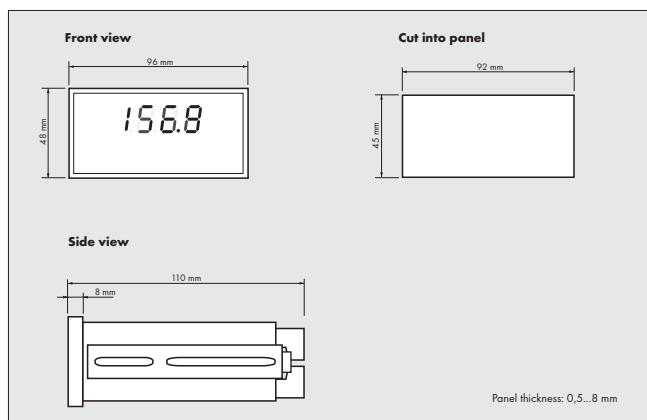
OPERATING CONDITIONS

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:	IP42, 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 (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

