

OMX 38RTD



2003-3-en

- **Pt 100; Pt 1 000; Ni 1 000**
- **Output: 0/4...20 mA; 0...2 V; 5 V; 10 V**
- **To DIN rail 35 mm**
- **Power supply 230 VAC**

Options

Power supply 24 VAC, 110 VAC, 10...30 VDC

Description

The OMX 38RTD model is a transmitter of temperature from Pt 100, Pt 1000 or Ni 1 000 sensors to isolated analog output.

The transmitter is in a plastic DIN box with a terminal board for mounting to rail of 35 mm width.

Transmitter power supply (230 VAC), Input and output signal have galvanic separation with isolation voltage of 300 V.

Operation

The transmitter is designed for simple measurement without further control.

Calibration

By trimmers accessible from the face of the transmitter we may adjust the range of output signal within the range of $\pm 2\%$.

Technical data

INPUT

Range:	-50...850°C
Type:	Pt 100 - 3 860 ppm/°C Pt 1 000 - 3 860 ppm/°C Ni 1 000 - 5 000 ppm/°C
Connection:	2, 3 or 4 wire

INSTRUMENT ACCURACY

Accuracy:	±0,2% of range
Rate:	continuous measurement
Calibration:	at 25°C and 40% r.h.

OUTPUTS

Analogue:	isolated, firmly set
Tempco:	100 ppm/°C
Rate:	response to change of value < 1 s
Voltage:	0...2 V; 5 V; 10 V; upon request ±10 V (max. load 1 kOhm)
Current:	0/4...20 mA; upon request ±20 mA (compensation of conduct up to 500 Ohm)
Corrugation:	5 mV residual corrugation at output voltage 10 V

POWER SUPPLY

24; 110; 230 VAC, 50/60 Hz, ±10%, 3 VA
10...30 VDC/max. 150 mA, (24 VDC/80 mA), isolated
- power supply is protected by a fuse inside the instrument

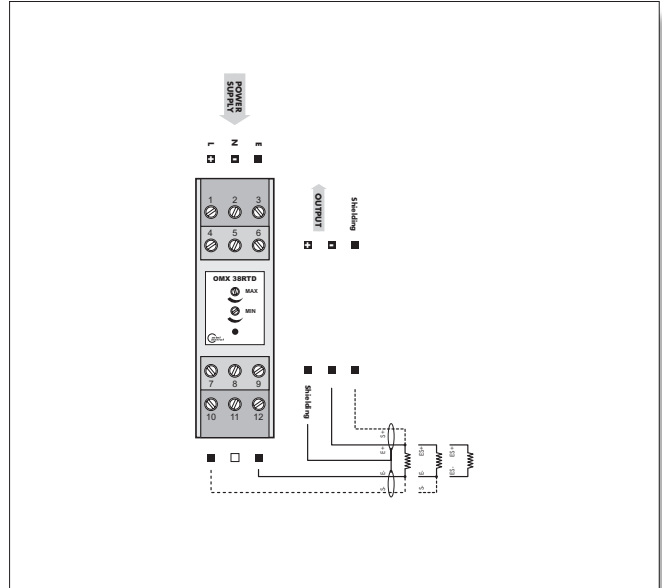
MECHANIC PROPERTIES

Material:	ABS (UL 94-V0), grey
Dimensions:	110,5 x 81,5 x 24,5 mm
Installation:	to DIN rail, width of 35 mm

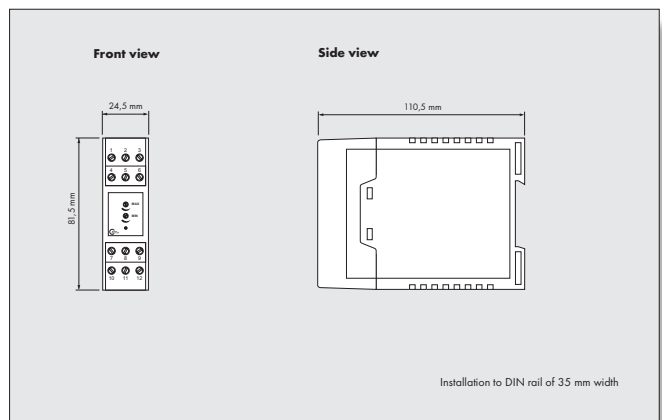
OPERATING CONDITIONS

Connection:	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:	IP20
Construction:	safety class II
Elektrical safety:	EN 61010-1, A2
Overtoltage category:	for pollution degree II II. - instrument power supply (300 V) II. - in-out, output (300 V)
EMC:	EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 55022, A1, A2

Connection



Dimensions



Order code

