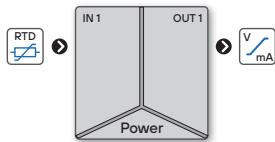




## OMX 39RTD



### ISOLATED TRANSMITTER Pt > U/I



- Input Pt 100/500/1 000
- Output 0...5 mA, 0...20 mA, 4...20 mA,  $\pm$ 20 mA  
0...2 V, 0...5 V, 0...10 V,  $\pm$ 10 V
- Galvanic separation 3.75 kVAC
- Power supply 10...30 V AC/DC; 80...250 V AC/DC

The OMX 39 model series are low-price and simple analog transmitters with mounting on a 35 mm wide DIN rail.

Type OMX 39RTD is a transmitter for galvanic separation of temperature resistance sensors Pt 100/500/1 000.

The transmitters have galvanic separation with isolation voltage of 600 V and thus they are suitable as primary isolation for majority of industrial applications.

### OPERATION

The transmitter is designed for simple measurements without further control.

### CALIBRATION

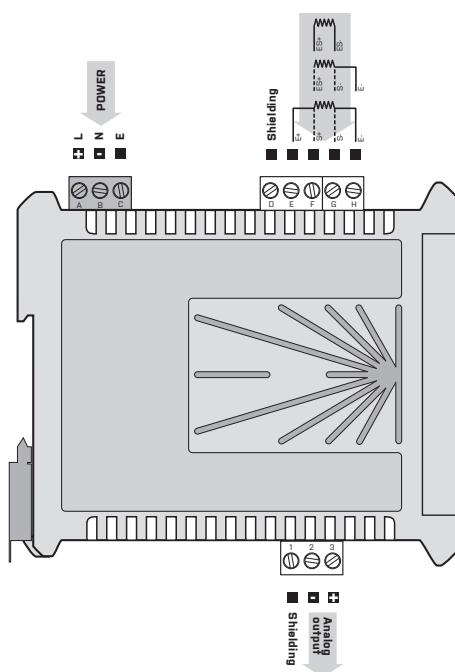
By trimmers accessible from the face of the transmitter you may adjust the range of the output signal within the range of  $\pm$ 10 %.

## TECHNICAL DATA

INPUT		INSTRUMENT SPECIFICATION		POWER SUPPLY	
No. of inputs	1 The range is fixed	TC	50 ppm/°C	Range	10...30 V AC/DC, ±10 %, PF ≥ 0.4, $I_{\text{STP}} < 75 \text{ A} / 1 \text{ ms}$ , isolated
RTD Range	Pt 100, 3 850 ppm/°C Pt 500, 3 850 ppm/°C Pt 1 000, 3 850 ppm/°C	Accuracy	±0.2 % of FS		80...250 V AC/DC, ±10 %, PF ≥ 0.4, $I_{\text{STP}} < 40 \text{ A} / 1 \text{ ms}$ , isolated
Connection	2, 3- or 4-wire	Rate	continuous measurement		Protection by fuse inside the device
		Overload	10x (t < 30 ms), 2x	Consumption	< 2.4 W / 2.6 VA
		Calibration	at 25°C and 40 % r.h.		
ANALOG OUTPUTS		MECHANIC PROPERTIES		OPERATING CONDITIONS	
No. of outputs	1	Material	PA 66, incombustible UL 94 V-I, blue	Connection	connector terminal blocks, section < 2.5 mm²
Type	isolated, fixed setting	Dimensions	22 x 98 x 113 mm (w x h x d)	Stabilization period	within 5 minutes after switch-on
TC	25 ppm/°C	Installation	on DIN rail, width 35 mm	Working temperat.	-20°...60°C
Rate	response to change of value < 1 ms			Storage temperat.	-20°...85°C
Ranges	0...2 / 5 / 10 V, ±10 V, resistive load ≥ 1 kΩ 0...5 / 20 mA / 4...20 mA, ±20 mA comp. < 600 Ω/12 V			Working humidity	< 95 % r.v., non condensing
				Protection	IP20
				Construction	safety class I
				El. safety	EN 61010-1, A2
				Dielectric strength	4 kVAC per 1 min test between supply and input 4 kVAC per 1 min test between supply and analog output 3.75 kVAC per 1 min test between input and analog output
				Insulation resist.*	for pollution degree II, measuring cat. II power supply > 600 V (Pi), 300 V (Di) input, output > 500 V (Pi), 250 V (Di)
				EMC	EN 61326-1:2021, Industrial area
				RoHS	EN IEC 63000:2018
				Seismic qualification	IEC/IEEE 60990-344 Edition 1.0, 2020, par. 6, 9
				Mechanical resistance	EN 60068-2-6 ed. 2:2008

\* Pi - Primary insulation, Di - Double insulation

## CONNECTION



## ORDER CODE

### OMX 39RTD

Power supply	10...30 V AC/DC	<b>0</b>	<b>1</b>	
	80...250 V AC/DC			
Measuring range*	Pt 100	<b>A</b>		
	Pt 500	<b>B</b>		
	Pt 1 000	<b>C</b>		
Connection	2-wire		<b>1</b>	
	3-wire		<b>2</b>	
	4-wire		<b>3</b>	
Analog output	0...2 V			<b>1</b>
	0...5 V			<b>2</b>
	0...10 V			<b>3</b>
	0...20 mA			<b>4</b>
	4...20 mA			<b>5</b>
	±10 V			<b>6</b>
	±20 mA			<b>7</b>
	0...5 mA			<b>8</b>

\* Please specify the required input temperature range in the order!

Basic configuration of the instrument is indicated in bold.