# **OMX** 39RTD



## ISOLATED TRANSMITTER Pt > U/I

■ Input: Pt 100/500/1 000

Output: 0...5 mA, 0...20 mA, 4...20 mA, ±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

### **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  $\pm 10~\%$ .



# **OMX** 39RTD

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.

#### OMX 39RTD

GALVANIC SEPARATION FOR TEMPERATURE SENSORS Pt XXX

## TECHNICAL DATA

INPL	INPUT						
Number of inputs		1					
Pt	Туре	fixed - please specify the required ra Pt 100, 3 850 ppm/°C Pt 500, 3 850 ppm/°C Pt 1000, 3 850 ppm/°C	nge in the order -50°850°C -50°850°C -50°850°C				
	Connection	2.2 or A wire					

#### INSTRUMENT ACCURACY

TC: 50 ppm/°C Accuracy: ±0,2% of range

Rate: continuous measurement

Overload capacity: 2x; 10x (t < 30 ms) Calibration: at 25°C and 40 % r.h.

ANALOG OUTPUTS

Type: isolated, fixed setting TC: 50 ppm/°C

10: 50 ppm/°C Rate: response to change of value < 1s 
Voltage: 0.2 V, 0..5 V, 0..10 V, on request ±10 V (minimum load 1 k $\Omega$ ) 
Current: 0...20 mA, 4...20 mA, on request ±20 mA (line compensation up to 600  $\Omega$ )

Range: 10...30 V AC/DC, ±10 %, PF≥ 0.4, I<sub>STP</sub>< 40 A/1 ms, isolated 80...250 V AC/DC, ±10 %, PF≥ 0.4, I<sub>STP</sub>< 40 A/1 ms, isolated

Consumption: < 2,4 W/2,6 VA

ted by a fuse inside the instrument

#### MECHANIC PROPERTIES

Material: PA 66, incombustible UL 94 V-I, blue Dimensions: 22 x 98 x 113 mm (w x h x d) Installation: on DIN rail, width 35 mm

OPERATING CONDITIONS Connection: connector terminal blocks, section < 2,5 mm<sup>2</sup>

Stabilization period: within 5 minutes after switch on Working temperature: -20°...60°C Storage temperature: -20°...85°C Protection: IP20

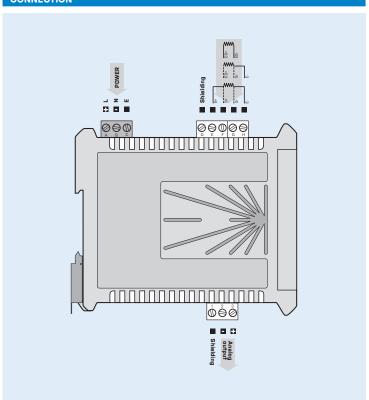
El. safety: EN 61010-1, A2

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 resistance: for pollution degree II, measuring cat. III power supply > 600 V (PI), 300 V (DI) input, output, PN > 500 V (PI), 250 V (DI) EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

# CONNECTION



#### ORDER CODE

OMX 39RTD	-				
Power supply	1030 V AC/DC	0			
	80250 V AC/DC	1			
Measuring range*	Pt 100		Α		
	Pt 500		В		
	Pt 1 0 0 0		С		
Connection	2-wire			1	
	3-wire			2	
	4-wire			3	
Analog output	02 V				1
	05 V				2
	010 V				3
	020 mA				4
	420 mA				5
	±10 V				6
	±20 mA				7
	05 mA				8

<sup>\*</sup> Please specify the required input temperature range in the order!

Basic configuration of the instrument is indicated in bold.