



OMX 39OHM

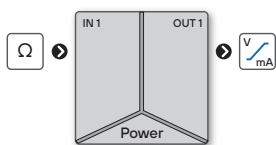
- Input 0...0.1 ~ 100 k Ω
- Output 0...5 mA, 0...20 mA, 4...20 mA, $\pm$ 20 mA
0...2 V, 0...5 V, 0...10 V, $\pm$ 10 V
- Galvanic separation 3.75 kVAC
- Power supply 10...30 V AC/DC; 80...250 V AC/DC

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

Type OMX 39OHM is a transmitter for galvanic resistance separation.

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

ISOLATED RESISTANCE TRANSMITTER > U/I



OPERATION

The transmitter is designed for simple measurements without further control.

CALIBRATION

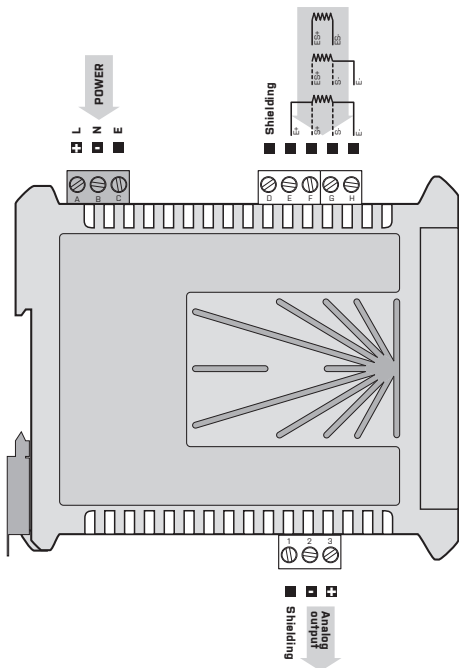
By trimmers accessible from the face of the transmitter you may adjust the range of the output signal within the range of $\pm$ 10 %.

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_{LSP} < 75 A / 1 ms, isolated 80...250 V AC/DC, ±10%, PF ≥ 0.4, I_{LSP} < 40 A / 1 ms, isolated <i>Protection by fuse inside the device</i>
OHM Range	0...0.1 ~ 100 kΩ	Accuracy	±0.2 % of FS	Consumption	< 2.4 W / 2.6 VA
Connection	2-, 3- or 4-wire	Rate	continuous measurement	MECHANIC PROPERTIES	
		Overload	10x (t < 30 ms), 2x	Material	PA 66, incombustible UL 94 V-1, blue
		Calibration	at 25°C and 40 % rh.	Dimensions	22 x 98 x 113 mm (w x h x d)
		ANALOG OUTPUTS		Installation	on DIN rail, width 35 mm
		No. of outputs	1	OPERATING CONDITIONS	
		Type	isolated, fixed setting	Connection	connector terminal blocks, section < 2.5 mm ²
		TC	25 ppm/°C	Stabilization period	within 5 minutes after switch-on
		Rate	response to change of value < 1 ms	Working temperat.	-20°...60°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	Storage temperat.	-20°...85°C
				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 60980-344 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 390HM		-	
Power supply	10...30 V AC/DC 80...250 V AC/DC	0 1	
Connection	2-wire 3-wire 4-wire	1 2 3	
Analog output	0...2 V 0...5 V 0...10 V 0...20 mA 4...20 mA ±10 V ±20 mA 0...5 mA	1 2 3 4 5 6 7 8	

Kindly specify the required input range in the order!

Basic configuration of the instrument is indicated in bold.