



## OMX 39PM

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

Type OMX 39PM is a galvanic separator.

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 TRANSMITTER - SEPARATOR

- Input: 0...5 mA; 0...20 mA; 4...20 mA  
0...2 V; 0...5 V; 0...10 V
- 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
- Option  
Excitation

**OMX 39PM**  
GALVANIC SEPARATOR

### 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  $\pm 10$  %.

### OPTION

**EXCITATION** with continuously adjustable value is suitable for feeding sensors and transmitters.

## TECHNICAL DATA

### INPUT

Number of inputs	1			
PM	Range	fixed		
		- please specify the required range in the order		
		0...5 mA	< 400 mV	Input I
		0...20 mA	< 400 mV	Input I
		4...20 mA	< 400 mV	Input I
		0...2 V	0,5 MΩ	Input U
		0...5 V	0,5 MΩ	Input U
	0...10 V	0,5 MΩ	Input U	

### INSTRUMENT ACCURACY

TC: 50 ppm/°C  
 Accuracy: ±0,1% 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  
 Rate: response to change of value < 1 ms  
 Voltage: 0...2 V, 0...5 V, 0...10 V, on request ±10 V (minimum load 1 kΩ)  
 Current: 0...20 mA, 4...20 mA, on request ±20 mA  
 (line compensation up to 600 Ω)

### EXCITATION

Adjustable: 5...24 VDC/max. 1,2 W

### POWER SUPPLY

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  
 Power supply is protected by a fuse inside the instrument.

### MECHANIC PROPERTIES

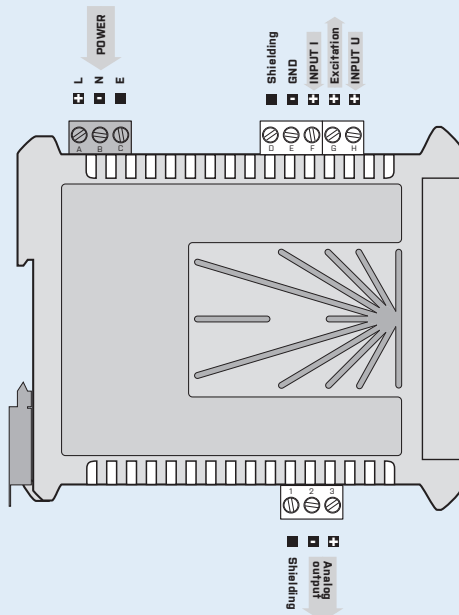
Material: PA 66, incombustible UL 94 V-1, blue  
 Dimensions: 22 x 98 x 113 mm (w x h x d)  
 Installation: on DIN rail, width 35 mm

### 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 39PM** -

Power supply	10...30 V AC/DC 80...250 V AC/DC	<b>0</b> <b>1</b>	
Measuring range	0...5 mA	<b>A</b>	
	0...20 mA	<b>B</b>	
	<b>4...20 mA</b>	<b>C</b>	
	0...2 V	<b>D</b>	
	0...5 V	<b>E</b>	
	0...10 V	<b>F</b>	
Excitation	no		<b>0</b>
	yes		<b>1</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>
	<b>4...20 mA</b>		<b>5</b>
	±10 V		<b>6</b>
	±20 mA		<b>7</b>
	0...5 mA		<b>8</b>

Basic configuration of the instrument is indicated in bold.