



- ISOLATED TRANSMITTERS TO DIN RAIL
- SIZE OF 113 x 98 MM, WIDTH 22 MM
- POWER SUPPLY 80...250 V AC/DC
- Option  
Excitation • Power supply 10...30 V AC/DC

## 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  $\pm 10\%$

## OPTION

**EXCITATION** is suitable for feeding of sensors and transmitters. It is isolated, with continuously adjustable value in the range of 2...24 VDC.

# OMX 39

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

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

### OMX 39DC

DC VOLTMETER AND AMMETER

### OMX 39AC

AC VOLTMETER AND AMMETER

### OMX 39PM

PROCESS MONITOR

### OMX 39W

TRANSMITTER FOR WATTMETER

### OMX 39OHM

TRANSMITTER FOR OHMMETER

### OMX 39RTD

TRANSMITTER FOR THERMOMETER - PT/NI

### OMX 39DU

TRANSMITTER FOR LINEAR POTENTIOMETERS

## TECHNICAL DATA

### INSTRUMENT ACCURACY

TK: 50 ppm/°C

Accuracy: ±0,1% of range

±0,2% of range

±0,3% of range

±0,5% of range

Rate: continuous measurement

Overload capacity: 2x; 10x (t < 30 ms) - not for > 300 V and 5 A

Calibration: at 25°C and 40% rh.

RTD, OHM

AC

W

### ANALOG OUTPUT

Type: isolated, fixed setting

TK: 50 ppm/°C

Rate: response to change of value < 1 ms

response to change of value < 1 s (AC, W, RTD, OHM)

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 (comp. < 600 Ω)

### EXCITATION

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

### POWER SUPPLY

10...30 V AC/DC, ±10%, max. 5 VA, PF ≥ 0,4, I<sub>rip</sub> < 40 A/1 ms

80...250 V AC/DC, ±10%, max. 5 VA, PF ≥ 0,4, I<sub>rip</sub> < 40 A/1 ms

Power supply is protected by a fuse inside the instrument

### MECHANICAL PROPERTIES

Material: PA 66, incombustible UL 94 V-1, blue

Dimensions: 113 x 98 x 22 mm

Installation: to DIN rail 35 mm wide

### OPERATING CONDITIONS

Connection: connector terminal board, 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

Cover: IP20

El. safety: EN 61010-1, A2

Dielectric strength: 4 kVAC after 1 min between supply and input

4 kVAC after 1 min between supply and analog output

3,75 kVAC after 1 min between input and analog output

Insulation resistance: for pollution degree II, measuring cat. III.

Power supply > 600 V (ZI), 300 V (DI)

input, output, Exc. > 500 V (ZI), 250 V (DI)

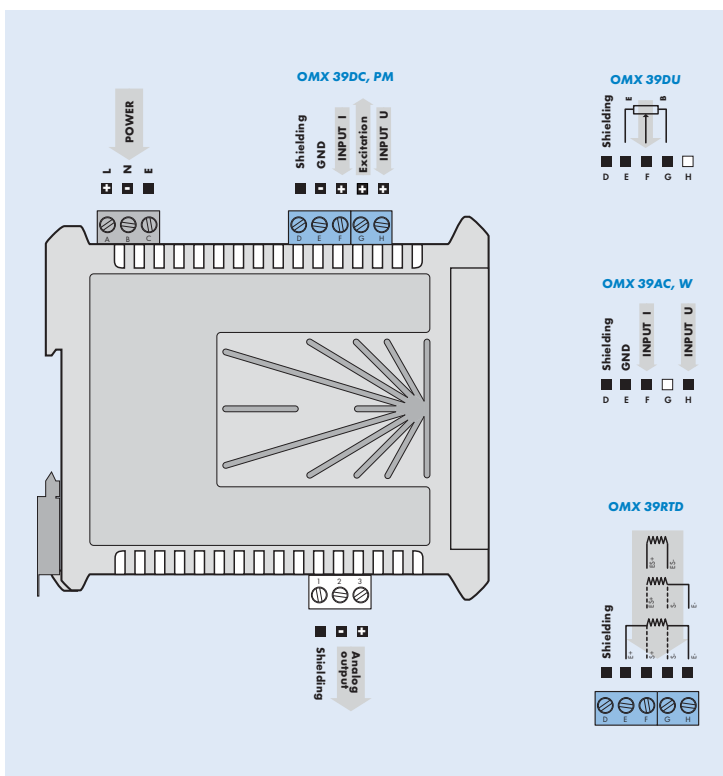
EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

## MEASURING RANGES

	DC	AC	W - U	W - I	PM	OHM	RTD	DU
W/O		40...2 500 Hz				0,1...100 kΩ	-50°...850°C	0,1...100 kΩ
A	60 mV...450 V	60 mV...450 V			0...5 mA		Pt 100	
B	5 mA...5 A	5 mA...5 A			0...20 mA		Pt 500	
C					4...20 mA		Pt 1 000	
D					0...2 V		Ni 1 000	
E					0...5 V			
F					0...10 V			
H				0...60 mV				
J				0...150 mV				
K				0...300 mV				
N				0...1 A				
P				0...5 A				
R			0...120 V					
S			0...150 V					
T			0...250 V					
U			0...450 V					
Z	on request	on request	on request	on request				

## CONNECTION



## ORDER CODE

### OMX 39

Type

□ □ □ - □ □ □ □ □

D	C	•	•	•	•
A	C	•	•	•	•
P	M	•	•	•	•
W		•	•	•	•
O	H	•	•	•	•
R	T	•	•	•	•
D	U	•	•	•	•

Order code shall not include blank spaces!

Power supply	10...30 V AC/DC	<b>0</b>		
	80...250 V AC/DC	<b>1</b>		
Measuring range, see table „Measuring ranges“		<b>?</b>		
Excitation	no		<b>0</b>	
	yes		<b>1</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>
	<b>4...20 mA</b>			<b>5</b>
	±10 V			<b>6</b>
	±20 mA			<b>7</b>
	0...5 mA			<b>8</b>

Please, state the input range (from the entire range stated) in your order!

Default execution is shown in bold