



- 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 rangeof output signal within the range of ±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

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TECHNICAL DATA

INSTRUMENT ACCURACY

TK: 50 ppm/°C
Accuracy: ±0,1% of range
±0,2% of range — RTD, OHM
±0,3% of range — AC
±0,5% of range — W
Rate: continuous measurement
Overload capacity: 2x; 10x (t < 30 ms) - not for > 300 V and 5 A
Calibration: at 25°C and 40% r.h.

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_{STP}< 40 A/1 ms
80...250 V AC/DC, ±10%, max. 5 VA, PF≥0,4, I_{STP}< 40 A/1 ms
Power supply is protected by a fuse inside the instrument

MECHANIC PROPERTIES

Material: PA 66, incombustible UL 94 V-I, blue
Dimensions: 113 x 98 x 22 mm
Installation: to DIN rail 35 mm wide

OPERATING CONDITIONS

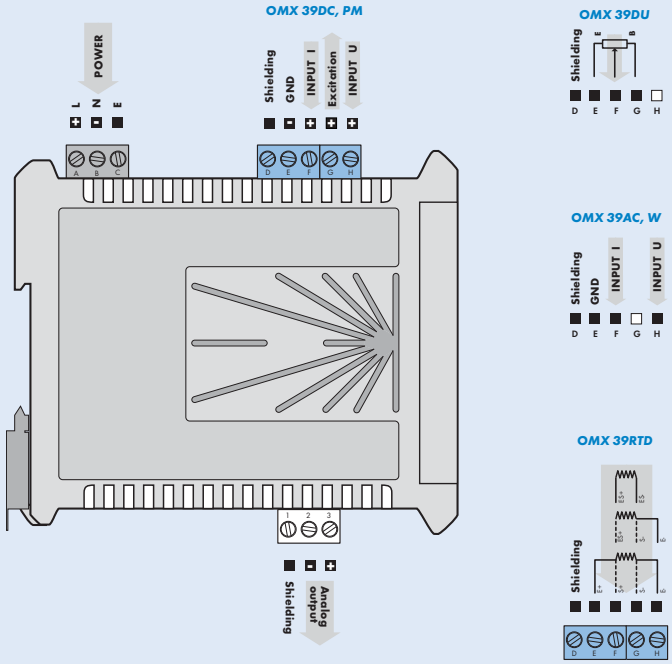
Connection: connector terminal board, section < 2,5 mm²
Stabilization period: within 5 minutes after switch-on
Working temperature: -20°...60°C
Storage temperature: -20°...85°C
Cover: IP20
El. safety: EN 61010-1, A2
Dielectric strength: 4 kVAC after 1 min between supply and input
4 kVAC after 1 min between 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	M	•			•	•	
	R	T	D	•	•		•	•	
Order code shall not include blank spaces!		D	U	•				•	
Power supply	10...30 V AC/DC			**0**					
	80...250 V AC/DC			**1**					
Measuring range, see table „Measuring ranges"					**?**				
Excitation	**no**					**0**			
	yes					**1**			
Connection	2-wire						**1**		
	3-wire						**2**		
	4-wire						**3**		
Analog output	0...2 V							**1**	
	0...5 V							**2**	
	0...10 V							**3**	
	0...20 mA							**4**	
	4...20 mA							**5**	
	±10 V							**6**	
	±20 mA							**7**	
	0...5 mA							**8**	

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

Default execution is shown in bold

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