

OMX 39



- Isolated transmitters to DIN rail
- Power supply 230 VAC

Options

- Excitation • Power supply: 10...30 V AC/DC

OMX 39DC	DC VOLTMETER AND AMMETER
OMX 39AC	AC VOLTMETER AND AMMETER
OMX 39PM	PROCESS MONITOR
OMX 39W	WATTMETER
OMX 39OHM	OHMMETER
OMX 39RTD	THERMOMETER FOR Pt /Ni
OMX 39DU	LINEAR POTENTIOMETERS

Description

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.

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 $\pm 10\%$.

Options

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

Technical data

INSTRUMENT ACCURACY

TC: 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: 10x (t < 30 ms) - not for > 300 V, 5A; 2x

Calibration: at 25 °C and 40% r.h.

RTD, OHM
AC
W

ANALOG OUTPUT

Type: isolated, fixed setting

TC: 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 (< 500 Ω)

Ripple: 5 mV residual ripple at output voltage of 10 V

EXCITATION

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

POWER SUPPLY

10...30 V AC/DC, ±10%, max. 5 VA, isolated

80...250 V AC/DC, ±10%, max. 5 VA, isolated

Power supply is protected by a fuse inside the instrument

MECHANIC 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: 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

2,5 kVAC after 1 min between input and analog output

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

power supply > 600 V (PI), 300 V (DI)

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

EMC: EN 61326-1

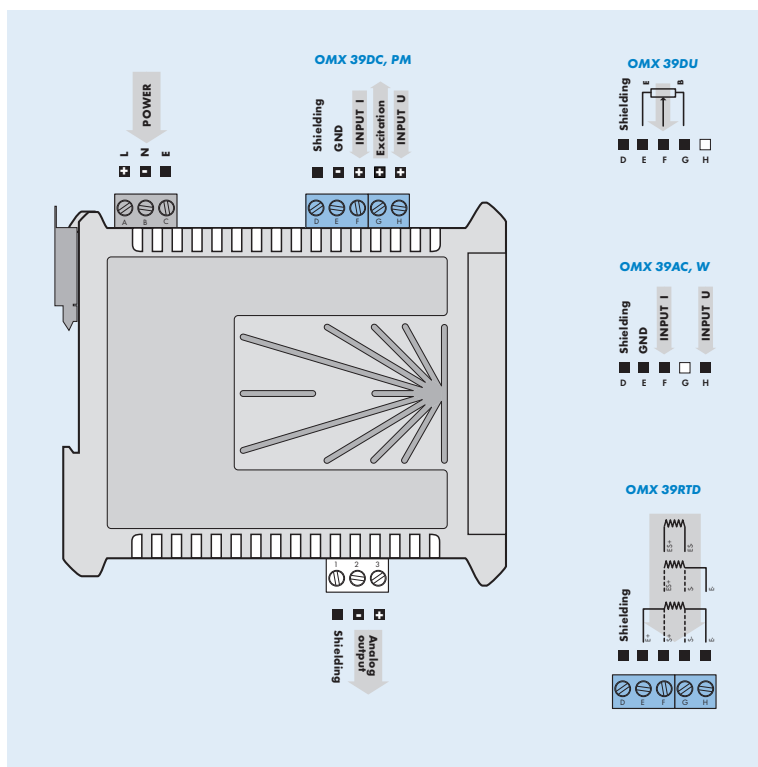
Seismic capacity: IEC 980: 1993, par. 6

PI - Primary insulation, DI - Double insulation

Measuring ranges

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

Connection



Order code

OMX 39

□ □ □ - □ □ □ □ □

Type

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

Order code shall not include blank spaces!

Power supply	10...30 V AC/DC 80...250 V AC/DC	0 1		
Measuring range, see table „Measuring ranges“		?		
Excitation	no yes	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

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