



- Isolated transmitters to DIN rail 35 mm
- Dimensions 113 x 98 mm, Width 22 mm
- Power supply 230 VAC

Extension

- Power supply 24/110 VAC, 10...30 VDC

OMX 38DC	DC VOLTMETER AND AMMETER
OMX 38AC	AC VOLTMETER AND AMMETER
OMX 38PM	PROCESS MONITOR
OMX 38W	WATTMETR
OMX 38OHM	OHMMETER
OMX 38RTD	THERMOMETER FOR Pt /Ni
OMX 38DU	LINEAR POTENTIOMETERS

Description

The OMX 38 model series are low-price and simple analog transmitters with mounting to DIN rail of 35 mm width.

Transmitters have galvanic separation with isolation voltage of 300 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 $\pm 10\%$.

Technical data

INSTRUMENT ACCURACY

TC: 100 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: 10x (t < 30 ms) - not > 300 V and 5A; 2x
Calibration: at 25 °C and 40% r.h.

ANALOG OUTPUTS

Type: isolated, firmly set
TC: 100 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
 (maximum load 1 kΩ)
Current: 0...20 mA, 4...20 mA, on request ±20 mA
 (compensation of conduct do 500 Ω)
Corrugation: 5 mV residual corrugation at input voltage of 10 V

POWER SUPPLY

24; 110; 230 VAC, 50/60 Hz, ±10%, 3 VA
 10...30 VDC/max. 150 mA, isolated
 Power supply is protected by a fuse inside the instrument

MECHANIC PROPERTIES

Material: Polyamid PA 6.6, V0 (UL 94), blue
Dimensions: 113 x 98 x 22 mm
Installation: to DIN rail, width of 35 mm

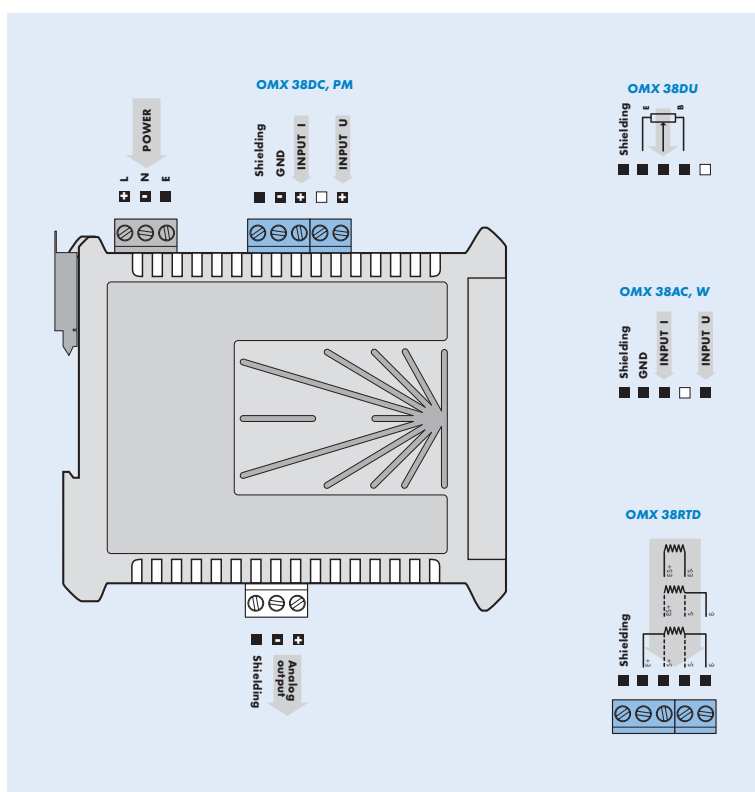
OPERATING CONDITIONS

Connection: terminal board, conductor section < 2,5 mm²
Stabilization period: within 5 minutes after switch-on
Working temperature: 0°...60°C
Storage temperature: -10°...85°C
Protection: IP20
Construction: safety class II
El. safety: EN 61010-1, A2
Overvoltage category: for pollution degree II
 III. - instrument power supply (300 V)
 II. - input, output (300 V)
EMC: EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

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			
G						G			
H			0...60 mV			H			
I						I			
J			0...150 mV			J			
K			0...300 mV			K			
L						L			
M						M			
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 38

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	24 VAC/50 Hz 230 VAC/50 Hz 110 VAC/50 Hz 10...30 VDC, isolated	0 1 3 4	
Measuring range, see table „Measuring ranges“		?	
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 requested input range (from the entire range presented) in your order!