OMX 38



- Isolated transmitters to DIN rail
- Power supply 230 VAC

Options

• 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** WATTMETER **OMX 380HM 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 $35\,\mathrm{mm}$ wide DIN rail.

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 for > 300 V, 5A; 2x Calibration: at 25°C and 40% r.h.

ANALOG OUTPUT

Type: isolated, fixed setting **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

(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

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: 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: terminal board, section < 2,5 mm²
Stabilization period: within 5 minutes after switch-on

Working temperature: 0°...60°C Storage temperature: -10°...85°C Cover: IP20

El. safety: EN 61010-1, A2

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

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

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

EMC: EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11;

EN 550222, A1, A2

PI - Primary insulation, DI - Double insulation

Measuring ranges

PM	W	W	DU	ОНМ		DC	AC	RTD
v/o			0,5100 kΩ	0,1100 kΩ	w/o		402 500 Hz	-50°850°C
A 05 mA					Α	60 mV450 V	60 mV450 V	Pt 100
B 020 mA					В	5 mA5 A	5 mA5 A	Pt 500
C 420 mA					С			Pt 1 000
D 02 V					D			Ni 1 000
E 05 V					E			
F 010 V					F			
					G			
Н		060 mV			н			
					1			
J		0150 mV			J			
K		0300 mV			К			
					L			
N		01 A			N			
P		05 A			P			
R	0120 V				R			
5	0150 V				S			
Т	0250 V				T			
U	0450 V				T U Z			
Z on request	on request	on request			Z			

Connection

OMX 38DC, PM OMX 38DU POWER GND INPUT I INPUT _ Z _ 000 00000 OMX 38AC, W U TUANI Shielding GND INPUT I OMX 38RTD 000 Ø00 Ø0

Order code

OMX 38				-				
Туре		D	С		•	•		
		Α	С		•	•		
		P	M		•	•		
			W		•	••		
	0	Н	M		•		•	
Order code shall not include blank spaces!	R	T	D		•	•	•	
Order code shair not include blank spaces:		D	U		•			
Power supply	24 VA	C/50) Hz		0			
	230 VAC/50 Hz							
	110 VAC/50 Hz							
	30 VDC		4			L		
Measuring range, see table "Measur	ing range:	5"				?		L
Connection	2-wire						1	
	3-wire						2	
	4-wire						3	L
Analog output	02 V							
	05 V							
	010 V							
	020 mA							
	420 mA							
	±10 V ±20 mA							
		05 mA						

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