

OMX 38DC



2003-3-en

- **10 mV...450 VDC**
- **5 mA...5 ADC**
- **Output: 0/4...20 mA; 0...2 V; 5 V; 10 V**
- **To DIN rail 35 mm**
- **Power supply 230 VAC**

Options

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

Description

The OMX 38DC model is a transmitter of direct-current voltage or current to isolated analog output.

The transmitter is in a plastic DIN box with a terminal board for mounting to rail of 35 mm width.

Transmitter power supply (230 VAC), input and output signal have galvanic separation with isolation voltage of 300 V.

Operation

The transmitter is designed for simple measurement without further control.

Calibration

By trimmers accessible on the face of the transmitter we may adjust the range of output signal within the range of $\pm 2\%$.

Technical data

MEASURING RANGE		Impedance/Max. drop	
Voltage:	10 mV...450 V	1 MOhm	(< 10 V...0,5 MOhm)
Current:	5 mA...5 A	< 200 mV	

External divider or shunt has to be used for larger ranges.

INSTRUMENT ACCURACY

Accuracy:	±0,1 % of range
Rate:	continuous measurement
Overload capacity:	2x (long-term)
Calibration:	at 25°C and 40 % r.h.

OUTPUTS

Analogue:	isolated, firmly set
Tempco:	100 ppm/°C
Rate:	response to change of value < 1 ms
Voltage:	0...2 V; 5 V; 10 V; upon request ±10 V (max. load 1 kOhm)
Current:	0/4...20 mA; upon request ±20 mA (compensation of conduct up to 500 Ohm)
Corrugation:	5 mV residual corrugation at output voltage 10 V

POWER SUPPLY

24; 110; 230 VAC, 50/60 Hz, ±10 %, 3 VA
 10...30 VDC/max. 150 mA, (24 VDC/max. 80 mA), isolated
 - power supply is protected by a fuse inside the instrument

MECHANIC PROPERTIES

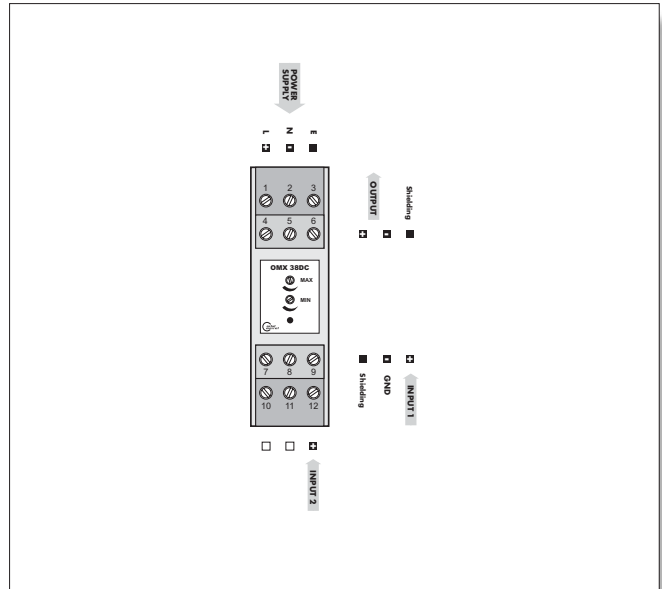
Material:	ABS (UL 94-V0), grey
Dimensions:	110,5 x 81,5 x 24,5 mm
Installation:	to DIN rail, width of 35 mm

OPERATING CONDITIONS

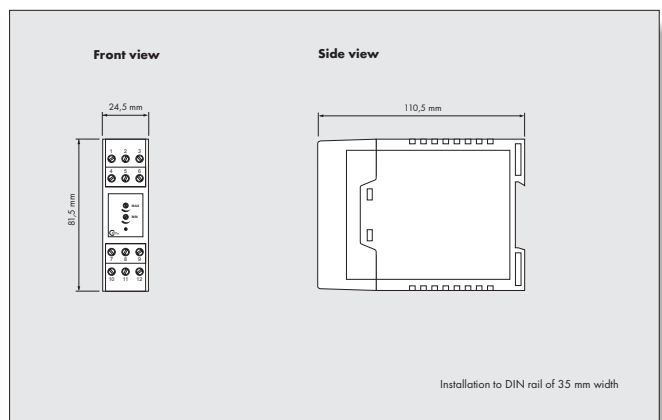
Connection:	terminal board, conductor section up to 2,5 mm
Stabilization period:	within 15 minutes after switch-on
Working temperature:	0°...60°C
Covering:	IP20
Construction:	safety class II
Electrical safety:	EN 61010-1, A2
Overvoltage category:	for pollution degree II

II. - 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 55022, A1, A2

Connection



Dimensions



Order code

