



OMX 39DC

The OMX 39 model series are low-price and simple analog transmitters with mounting on a 35 mm wide DIN rail.

Type OMX 39DC is a transmitter for galvanic separation of DC voltage or current.

The transmitters have galvanic separation with isolation voltage of 600 V and thus they are suitable as primary isolation for majority of industrial applications.

ISOLATED TRANSMITTER DC V-A > U/I

- Input: 0...10 mV ~ 450 V
0...5 mA ~ 5 A
- Output: 0...5 mA, 0...20 mA, 4...20 mA, ±20 mA
0...2 V, 0...5 V, 0...10 V, ±10 V
- Galvanic separation: 3,75 kVAC
- Power supply 10...30 V AC/DC; 80...250 V AC/DC
- Option
Excitation

OMX 39DC
GALVANIC SEPARATION FOR DC VOLTAGE OR CURRENT

OPERATION

The transmitter is designed for simple measurements without further control.

CALIBRATION

By trimmers accessible from the face of the transmitter you may adjust the range of the output signal within the range of ±10 %.

OPTION

EXCITATION with continuously adjustable value is suitable for feeding sensors and transmitters.

TECHNICAL DATA

INPUT

Number of inputs	1
DC Range	fixed unipolar or bipolar - please specify the required range in the order
0...10 mV ~ 10 V	0.5 MΩ
0...10 V ~ 450 V	1 MΩ
0...5 mA ~ 5 A	< 260 mV
	Input U
	Input I

INSTRUMENT ACCURACY

TC: 50 ppm/°C
Accuracy: ±0,1% of range
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 OUTPUTS

Type: isolated, fixed setting
TC: 50 ppm/°C
Rate: response to change of value < 1ms
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
(line compensation up to 600 Ω)

EXCITATION

Adjustable: 5...24 VDC/max. 1.2 W

POWER SUPPLY

Range: 10...30 V AC/DC, ±10 %, PF ≥ 0,4, I_{STP} < 40 A/1 ms, isolated
80...250 V AC/DC, ±10 %, PF ≥ 0,4, I_{STP} < 40 A/1 ms, isolated
Consumption: < 2,4 W/2,6 VA
Power supply is protected by a fuse inside the instrument.

MECHANIC PROPERTIES

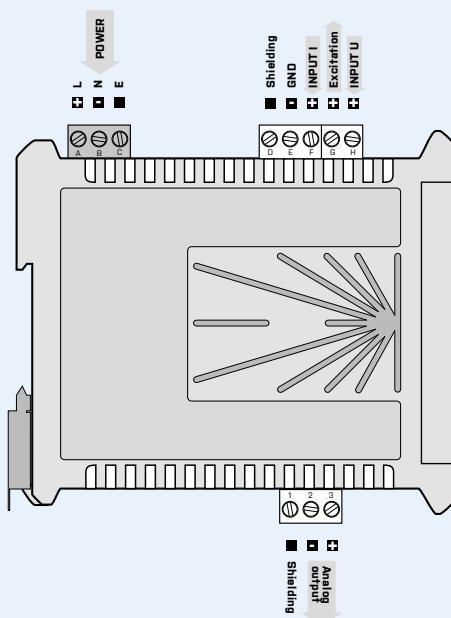
Material: PA 66, incombustible UL 94 V-I, blue
Dimensions: 22 x 98 x 113 mm (w x h x d)
Installation: on DIN rail, width 35 mm

OPERATING CONDITIONS

Connection: connector terminal blocks, section < 2,5 mm²
Stabilization period: within 5 minutes after switch on
Working temperature: -20°...60°C
Storage temperature: -20°...85°C
Protection: IP20
El. safety: EN 61010-1, A2
Dielectric strength: 4 kVAC per 1 min test between supply and input
4 kVAC per 1 min test between supply and analog output
3,75 kVAC per 1 min test between input and analog output
Insulation resistance: for pollution degree II, measuring cat. III
power supply > 600 V (PI), 300 V (DI)
input, output, PN > 500 V (PI), 250 V (DI)
EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

CONNECTION



ORDER CODE

OMX 39DC

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Power supply	10...30 V AC/DC 80...250 V AC/DC	0	<input type="checkbox"/>
Measuring range*	voltage current	A	<input type="checkbox"/>
Excitation	no yes	0	<input type="checkbox"/>
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	<input type="checkbox"/>
		2	<input type="checkbox"/>
		3	<input type="checkbox"/>
		4	<input type="checkbox"/>
		5	<input type="checkbox"/>
		6	<input type="checkbox"/>
		7	<input type="checkbox"/>
		8	<input type="checkbox"/>

* Kindly specify the required input range in the order!

Basic configuration of the instrument is indicated in bold.