

## OMX 39DU



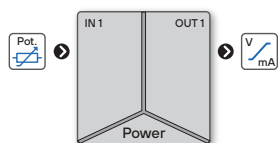
- Input for potentiometer
- Output 0...5 mA, 0...20 mA, 4...20 mA,  $\pm 20$  mA  
0...2 V, 0...5 V, 0...10 V,  $\pm 10$  V
- Galvanic separation 3.75 kVAC
- Power supply 10...30 V AC/DC; 80...250 V AC/DC

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

Type OMX 39DU is a transmitter for galvanic separation of linear potentiometers.

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

### ISOL. TRANSMITTER FOR POTENTIOMETERS



#### 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  $\pm 10$  %.

## TECHNICAL DATA

### INPUT

No. of inputs	1 The range is fixed
DU Range	0...100 kΩ
Power sensors	10 VDC/20 mA, potentiometer resistance > 500 Ω

### INSTRUMENT SPECIFICATION

TC	50 ppm/°C
Accuracy	±0.2 % of FS
Rate	continuous measurement
Overload	10x (t < 30 ms), 2x
Calibration	at 25°C and 40 % rh.

### ANALOG OUTPUTS

No. of outputs	1
Type	isolated, fixed setting
TC	25 ppm/°C
Rate	response to change of value < 1 ms
Ranges	0...2 / 5 / 10 V, ±10 V, resistive load ≥ 1 kΩ 0...5 / 20 mA, 4...20 mA, ±20 mA compensation < 600 Ω/12 V

### POWER SUPPLY

Range	10...30 V AC/DC, ±10 %, PF ≥ 0.4, I <sub>SP</sub> < 75 A / 1 ms, isolated 80...250 V AC/DC, ±10 %, PF ≥ 0.4, I <sub>SP</sub> < 40 A / 1 ms, isolated <i>Protection by fuse inside the device</i>
Consumption	< 2.4 W / 2.6 VA

### MECHANIC PROPERTIES

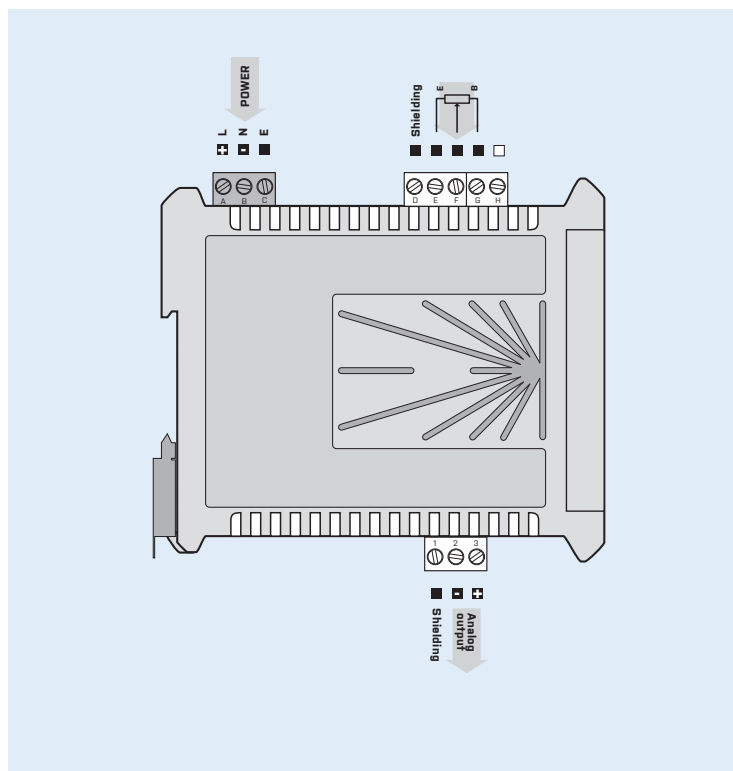
Material	PA 66, incombustible UL 94 V-1, blue
Dimensions	22 x 98 x 113 mm (w x h x d)
Installation	on DIN rail, width 35 mm

### OPERATING CONDITIONS

Connection	connector terminal blocks, section < 2.5 mm <sup>2</sup>
Stabilization period	within 5 minutes after switch-on
Working temperat.	-20°...60°C
Storage temperat.	-20°...85°C
Working humidity	< 95 % r.v., non condensing
Protection	IP20
Construction	safety class I
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 resist.*	for pollution degree II, measuring cat. II power supply > 600 V (PI), 300 V (DI) input, output > 500 V (PI), 250 V (DI)
EMC	EN 61326-1, Industrial area
Seismic qualification	IEC/IEEE 60980-344 Edition 1.0, 2020, par. 6, 9
Mechanical resistance	EN 60068-2-6 ed. 2:2008

\* PI - Primary insulation, DI - Double insulation

## CONNECTION



## ORDER CODE

### OMX 39DU

Power supply	10...30 V AC/DC 80...250 V AC/DC	<b>0</b> 1
Analog output	0...2 V 0...5 V 0...10 V 0...20 mA <b>4...20 mA</b> ±10 V ±20 mA 0...5 mA	<b>1</b> 2 3 4 5 6 7 8

Basic configuration of the instrument is indicated in bold.