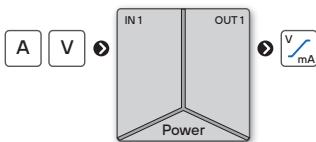




## ISOLATED TRANSMITTER AC V-A > U/I



## OMX 39AC

- Input 0...60 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

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

Type OMX 39AC is a transmitter for galvanic separation of AC 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.

## 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 %.

## TECHNICAL DATA

INPUT	
No. of inputs	1 The range is fixed
AC Range	0...60 mV - 450 V 0.5 MΩ 0...5 mA - 5 A < 260 mV Input U Input I
Input frequency	40...2500 Hz

## INSTRUMENT SPECIFICATION

TC	50 ppm/°C
Accuracy	±0.3 % of FS
Rate	continuous measurement
Overload	10x (t < 30 ms), 2x not valid for > 250 V and 5 A ranges
Calibration	at 25°C and 40 % r.h.

## POWER SUPPLY

Range	10...30 V AC/DC, ±10 %, PF ≥ 0.4, $I_{\text{STP}} < 75 \text{ A} / 1 \text{ ms}$ , isolated 80...250 V AC/DC, ±10 %, PF ≥ 0.4, $I_{\text{STP}} < 40 \text{ A} / 1 \text{ ms}$ , isolated Protection by fuse inside the device
Consumption	< 2.4 W / 2.6 VA

## MECHANIC PROPERTIES

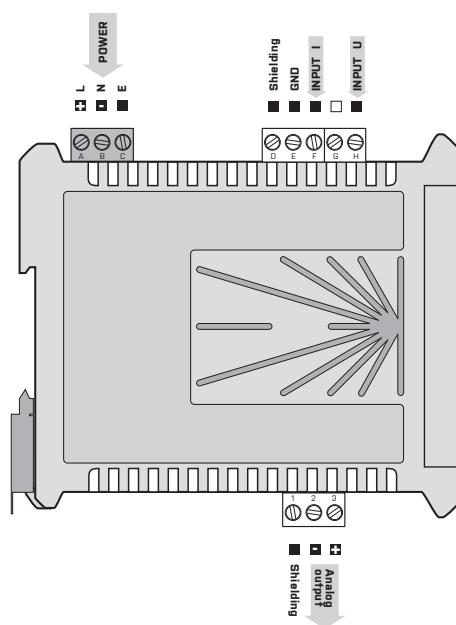
Material	PA 66, incombustible UL 94 V-I, blue
Dimensions	22 x 98 x 113 mm (w x h x d)
Installation	on DIN rail, width 35 mm

## OPERATING CONDITIONS

Connection	connector terminal blocks, section < 2.5 mm²
Stabilization period	within 5 minutes after switch-on
Working 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 (P), 300 V (D) input, output > 500 V (P), 250 V (D)
EMC	EN 61326-1:2021, Industrial area
RoHS	EN IEC 63000:2018
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 39AC

Power supply	10...30 V AC/DC 80...250 V AC/DC	0	1	
Measuring range*	voltage current	A	B	
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	

\* Kindly specify the required input range in the order!

Basic configuration of the instrument is indicated in bold.