



## OMX 39AC

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.

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

- INPUT: 0...60 mV ~ 450 V  
0...5 mA ~ 5 A
- 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

### OMX 39AC

GALVANIC SEPARATION FOR AC 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  $\pm 10$  %.

## TECHNICAL DATA

### INPUT

AC	Range	fixed - please specify the required range in the order
	0...60 mV ~ 450 V	1 M $\Omega$ Input U
	0...5 mA ~ 5 A	< 400 mV Input I
	40...2 500 Hz	

### INSTRUMENT ACCURACY

TK: 50 ppm/°C  
**Accuracy:** 0,3% 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  
 TK: 50 ppm/°C  
**Rate:** response to change of value < 1 s  
**Voltage:** 0...2 V, 0...5 V, 0...10 V, on request  $\pm 10$  V (minimum load 1 k $\Omega$ )  
**Current:** 0...20 mA, 4...20 mA, on request  $\pm 20$  mA  
 (line compensation up to 600  $\Omega$ )

### POWER SUPPLY

**Range:** 10...30 V AC/DC,  $\pm 10$  %, PF  $\geq 0,4$ , I<sub>STP</sub> < 40 A/1 ms, isolated  
 80...250 V AC/DC,  $\pm 10$  %, PF  $\geq 0,4$ , I<sub>STP</sub> < 40 A/1 ms, isolated  
**Consumption:** < 2,4 W/2,6 VA  
 Power supply is protected by a fuse inside the instrument.

### MECHANIC PROPERTIES

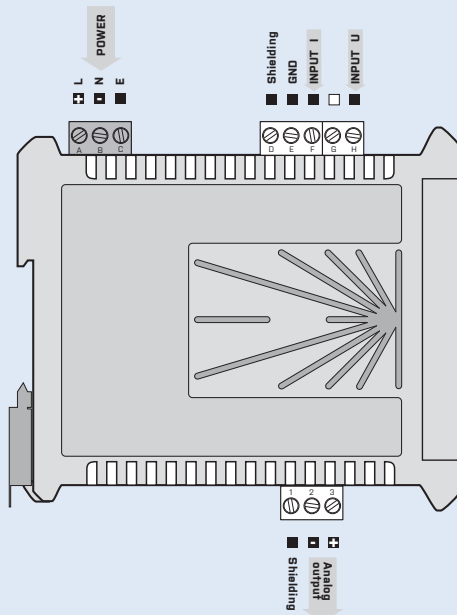
**Material:** PA 66, incombustible UL 94 V-1, blue  
**Dimensions:** 22 x 98 x 113 mm (w x h x d)  
**Installation:** on DIN rail, width 35 mm

### OPERATING CONDITIONS

**Connection:** connector terminal blocks, section < 2,5 mm<sup>2</sup>  
**Stabilization period:** within 5 minutes after switch on  
**Working 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 39AC

Power supply	10...30 V AC/DC 80...250 V AC/DC	0 1	
Measuring range*	voltage current	A B	
Analogue output	0...2 V 0...5 V 0...10 V 0...20 mA <b>4...20 mA</b> $\pm 10$ V $\pm 20$ mA 0...5 mA		<b>1</b> 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.