



OMX 39AC

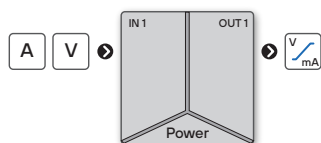
- Input 0...60 mV ~ 450 V
0...5 mA ~ 5 A
- Output 0...5 mA, 0...20 mA, 4...20 mA, ± 20 mA
0...2 V, 0...5 V, 0...10 V, ± 10 V
- Galvanic separation 3.75 kVAC
- Power supply 10...30 V AC/DC; 80...250 V AC/DC

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.

ISOLATED TRANSMITTER AC V-A > U/I



OPERATION

The transmitter is designed for simple measurements without further control.

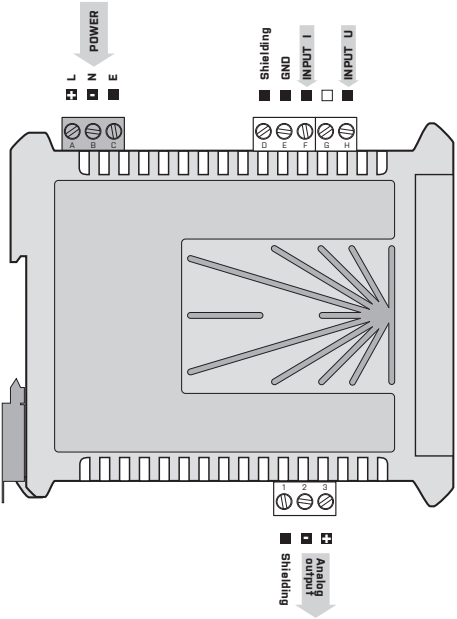
CALIBRATION

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				INSTRUMENT SPECIFICATION		POWER SUPPLY		
No. of inputs		1 The range is fixed		TC	50 ppm/°C		Range	10...30 V AC/DC, ±10%, PF ≥ 0.4, I _{isp} < 75 A / 1 ms, isolated 80...250 V AC/DC, ±10%, PF ≥ 0.4, I _{isp} < 40 A / 1 ms, isolated <i>Protection by fuse inside the device</i>
AC	Range	0...60 mV ~ 450 V 0...5 mA ~ 5 A	0.5 MΩ < 260 mV	Accuracy	±0.3 % of FS			
	Input frequency	40...2500 Hz		Rate	continuous measurement			
				Overload	10x (t < 30 ms), 2x <i>not valid for > 250 V and 5 A ranges</i>			
				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 comp. < 600 Ω/12 V			
						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 temperatur.	-20°...60°C	
						Storage temperatur.	-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 61326-1:2021, 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	0	1					
	80...250 V AC/DC	1						
Measuring range*	voltage						A	
	current							
Analog output	0...2 V							1
	0...5 V							2
	0...10 V							3
	0...20 mA							4
	4...20 mA							5
	±10 V							6
	±20 mA							7
	0...5 mA							8

* Kindly specify the required input range in the order!

Basic configuration of the instrument is indicated in bold.