OMX 39DU



ISOL. TRANSMITTER FOR LIN. POTENTIOMETERS

■ Input: Linear potentiometer

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

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 $\pm 10~\%$.



OMX 39DU

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.

OMX 39DU

GALVANIC SEPARATION FOR LINEAR POTENTIOMETERS

TECHNICAL DATA

INPU		
Number of inputs		1
DU	Range	0100 kΩ
	Pot. power	10 VDC/20 mA, Potentiometer resistance > 500 Ω

INSTRUMENT ACCURACY

TC: 50 ppm/°C Accuracy: ±0,2% of range

Rate: continuous measurement

Overload capacity: 2x; 10x (t < 30 ms) Calibration: at 25°C and 40 % r.h.

ANALOG OUTPUTS

Type: isolated, fixed setting TC: 50 ppm/°C

10: 50 ppm/*C Rate: response to change of value < 1 ms
Voltage: 0..2 V, 0..5 V, 0..10 V, on request ±10 V (minimum load 1 k Ω)
Current: 0...20 mA, 4...20 mA, on request ±20 mA
(line compensation up to 600 Ω)

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

ted 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

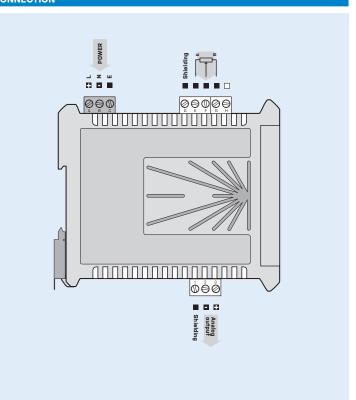
El. safety: EN 61010-1, A2

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 39DU -			
Power supply	1030 V AC/DC	0	
	80250 V AC/DC	1	
Analog output	02 V		1
	05 V		2
	010 V		3
	020 mA		4
	420 mA		5
	±10 V		6
	±20 mA		7
	05 mA		8

Basic configuration of the instrument is indicated in bold.