



OMX 30PAS

- Input 0/4...20 mA
- Output 0/4...20 mA
- Burden < 1200 Ω
- Galvanic separation 4 kVAC

Option

HART transparent

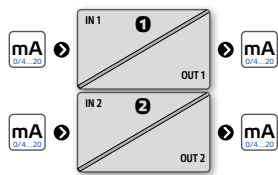
The compact passive signal converter/isolator is designed for galvanic isolation and transmission of standard current signals 0/4...20 mA in industrial measurement and control systems. It does not require any external power supply.

It is available in single-channel or dual-channel versions for DIN rail mounting. Galvanic isolation limits the occurrence of ground loops and increases the measurement system's resistance to interference and differences in ground potentials.

An optional HART-transparent version is also available, which allows bidirectional passage of HART digital communication along with the analog current signal.

The compact design and no need for external power supply enable easy installation in electrical cabinets even in space-constrained applications.

PASSIVE ISOLATED TRANSMITTER - SEPARATOR



OPERATION

The transmitter is designed for simple measurements without further control.

TECHNICAL DATA

INPUT

No. of inputs	1 or 2, passive, the range is fixed
PAS Range	0...20 mA < 2.8 V 4...20 mA < 2.8 V <i>Voltage drop across the device (input-output)</i>
Range (HART)	0...20 mA < 3.2 V 4...20 mA < 3.2 V <i>Voltage drop across the device (input-output)</i>
Current	< 100 mA
Voltage	< 28 V

INSTRUMENT SPECIFICATION

TC	10 ppm/°C
Accuracy	±0.1% of FS
Rate	continuous measurement
Overload	10x (t < 30 ms), 2x
Calibration	at 25°C and 40 % rh.

ANALOG OUTPUT

No. of outputs	1 or 2
Type	isolated, passive, fixed configuration
Burden	$< 1200 \Omega$ ($I \leq 20 \text{ mA}$) <i>Error < 0,00006 %/Ω</i>
Ripple	$< 0,2\%$
Rate	response to change of value $< 1 \text{ ms}$
Range	0...20 mA 4...20 mA <i>Maximum output current corresponds to the input current.</i>

POWER SUPPLY

Loop-powered	3,5...28 VDC <i>Minimum voltage depends on the actual load.</i>
Consumption	< 70 mW/channel

MECHANIC PROPERTIES

Material	PA 66, incombustible UL 94 V-I, blue
Dimensions	12.5 x 99 x 114.5 mm (w x h x d)
Installation	on DIN rail, width 35 mm

OPERATING CONDITIONS

Connection	connector terminal blocks, section < 2.5 mm ²
Stabilization period	within 5 minutes after switch-on
Working temp.	-20°... 60°C
Storage temp.	-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 input and an. output 3 kVAC per 1 min test between input and an. output <i>Applies to the HART-transparent version</i>
Insulation resist.	for pollution degree II, measuring cat. III input, output > 30 V
EMC	EN IEC 61326-1, Industrial area
RoHS	EN IEC 63000:2018
Seismic qualification	IEC/IEEE 60890-344 Edition 10, 2020, par. 6, 9
Mechanical resistance	EN 60068-2-6 ed. 2:2008

CONNECTION



Output

AO 2 - Current, passive



Load

IN 1 - Current

5	6
7	8

IN 2 - Current

Input

ORDER CODE

OMX 30PAS -

--	--

Number of channels	1 channel	1	
	2 channels	2	
HART transparent	no		0
	yes		H