High-performance Isolation Transmitter for Unipolar mA/V Signals with Calibrated Range Selection

The Isolation Transmitter IsoPAQ-40P is used for high-precision isolation and conversion of 0-20 mA, 4-20 mA and 0-10 V unipolar signals.

Due to the calibrated range selection of the input/output signals, the selectable bandwidth and the universal power supply, IsoPAQ-40P provides excellent flexibility and low storage and installation costs.

The high reliability and the Protective Separation are additional features that ensure a safe system operation.





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Calibrated range selection

Input and output range in mA or V can be set by using DIP switches without any further adjustments

Protective Separation acc. to EN 61140

The design and high isolation level (4 kV) provides protection for service personnel and downstream devices against impermissibly high voltage

High accuracy

Negligible additional measurement errors in the loop

Universal power supply for 20 to 253 VAC/DC

Applicable world-wide for all common supply voltages

3-port isolation

Protection against erroneous measurements due to parasitic voltages or ground loops

• High-density DIN-rail mounting

12.5 mm (0.5") housing combined with very low self heating allows for high density mounting

Plug-in screw terminals

Simplifies installation and maintenance

• Excellent reliability

Low self heating thanks to patented high-efficiency power supply provides long-term reliability and stability

Specifications: IsoPAQ-40P

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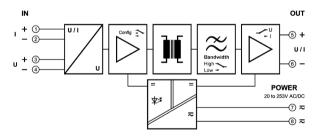
Input signal	0-20 mA ^{1]} 4-20 mA	0-10 V Terminal/switch selectable		
Input resistance	Current input	22 Ω		
	Voltage input	1 ΜΩ		
Input capacitance	Approx. 1 nF			
Overload	Current input	≤ 200 mA		
	Voltage input	Voltage limitation via 30 V Z-Diode, max.continuous current 30 mA		
Output				
Output signal	0-20 mA ^{1]} 4-20 mA	0-10 V Switch selectable		
Load	Current output	≤ 600 Ω		
	Voltage output	≥ 1 kΩ		
Linear transmission range	-2 to +110 %			
Ripple	< 0.1 % of end value, ~150 kHz			
General data				
Transmission error	± 0.1 % of end value			
Temperature coefficient ^{2]}	± 0.005 %/K of end value			
Cut-off frequency (-3 dB)	> 1 kHz ¹ Switchable to < 30 Hz			
Test voltage	4 kV, 50 Hz Input against output against power supply			
Working voltage ^{3]} (Basic insulation)	600 VAC/DC for overvoltage category II and pollution degree 2			
	acc. to EN 61010 part 1 between a			
Protection against electrical	Protective separation acc. to EN 61140 by reinforced insulation acc. to EN 61010 part 1			
shock ^{3]}	up to 300 VAC/DC for overvoltage category II and pollution degree 2 between all circuits.			
Ambient temperature	Operation	-20 to +70 °C (-4 to +158 °F)		
	Transport and storage	-35 to +85 °C (-31 to +185 °F)		
Power supply	20 to 253 VAC/DC	AC 48 to 62 Hz, approx. 2 VA		
		DC approx. 1 W		
EMC ⁴⁾	EN 61326-1			
Construction	12.5 mm (0.5") housing, protection class: IP20			
Connection	≤ 2.5 mm², AWG 14			
Weight	Approx. 100 g			

- 2) Average TC in specified operating temperature range
 3) As far as relevant the standards and rules mentioned above are considered by development and production of our devices. In addition relevant assembly rules are to be considered

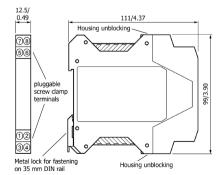
 3) As far as relevant the standards and rules mentioned above are considered by development and production of our devices. In addition relevant assembly rules are to be considered by installation of our devices in other equipments. For applications with high working voltages, take measures to prevent accidental contact and make sure that there is sufficient distance or insulation between adjacent situated devices.

 4) Minor deviations possible during interference

Block diagram/Connections



Dimensions



Ordering information

Product	Input / Output	Part No.
IsoPAQ-40P	Calibrated range selection	70ISP40001

mm/inch