

ISO^PAQ-60P

High-performance Isolation Transmitter for Bipolar and Unipolar mA/V Signals with Extensive Range Selection and Zero/Span Adjustment

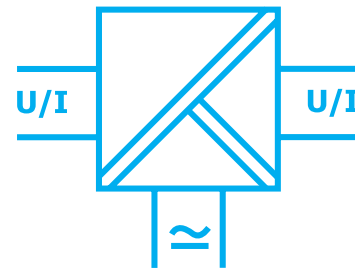


The Isolation Transmitter IsoPAQ-60P is used for high-precision isolation and conversion of 0-20 mA, 4-20 mA and 0-10 V bipolar and unipolar signals.

Due to the extensive range selection with a choice of 144 input/output signal combinations, the selectable bandwidth and the universal power supply, IsoPAQ-60P is a true universal transmitter for any demanding isolation application.

The zero and span adjustments allow for a fine-tuning of the measurement loop.

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



- **Extensive range selection**
Input and output range in mA or V can be set in 144 combinations by using DIP switches
- **Zero/Span Adjustment**
Allow for additional fine-tuning of the measurement loop and recalibration after a range selection
- **Extremely fast response**
Cut-off frequency higher than 10 kHz, switchable to 30 Hz
- **Protective Separation**
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

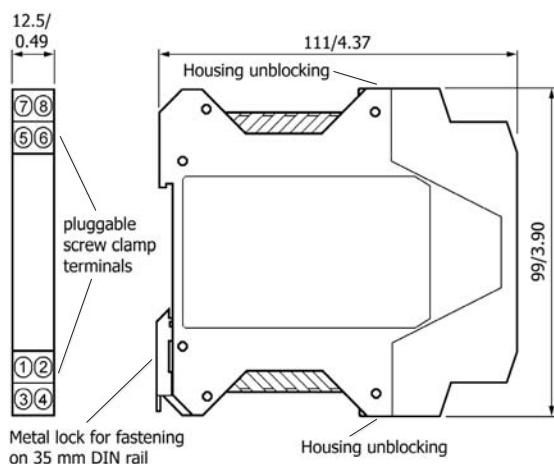
Specifications: IsoPAQ-60P

Input	Voltage	Current			
Input signal (terminal/switch selectable)	$\pm 10 \text{ V}^{1)}$ $\pm 5 \text{ V}$	0-10 V 0-5 V	2-10 V 1-5 V	$\pm 20 \text{ mA}$ $\pm 10 \text{ mA}$	0-20 mA 0-10 mA 4-20 mA 2-10 mA
Input resistance	Approx. 1 M Ω		Approx. 25 Ω		
Input capacitance	Approx. 1 nF		Approx. 1 nF		
Overload	Voltage limitation via 30 V Z-Diode, max. continuous current 30 mA			$\leq 200 \text{ mA}$	
Output	Voltage	Current			
Output signal (switch selectable)	$\pm 10 \text{ V}^{1)}$ $\pm 5 \text{ V}$	0-10 V 0-5 V	2-10 V 1-5 V	$\pm 20 \text{ mA}$ $\pm 10 \text{ mA}$	0-20 mA 0-10 mA 4-20 mA 2-10 mA
Load	$\leq 10 \text{ mA}$ (1 k Ω @ 10 V)		$\leq 12 \text{ V}$ (600 Ω @ 20 mA)		
Linear transmission range	Unipolar: -2 to +110 %, Bipolar: -110 to +110 %				
Ripple	< 0.2 % of end value, ~150 kHz				
General data					
Transmission error	$\pm 0.1 \%$ of end value				
Temperature coefficient ²⁾	$\pm 0.01 \%$ /K of end value				
Zero/Span adjustment	$\pm 10 \%$ of end value				
Cut-off frequency (-3 dB)	> 10 kHz¹⁾		Switchable to approx. 30 Hz		
Test voltage	4 kV, 50 Hz		Input against output against power supply		
Working voltage ³⁾ (Basic Insulation)	1000 VAC/DC for overvoltage category II and contamination class 2 acc. to EN 61010 part 1				
Protection against dangerous body currents ³⁾	Protective separation acc. to EN 61140 by reinforced insulation acc. to EN 61010 part 1 up to 300 VAC/DC for overvoltage category II and contamination class 2 between all circuits.				
Ambient temperature	Operation		-20 to +70 °C (+14 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 tyoe: IP20				
Connection	$\leq 2.5 \text{ mm}^2$, AWG14				
Weight	Approx. 100 g				

1) Factory settings

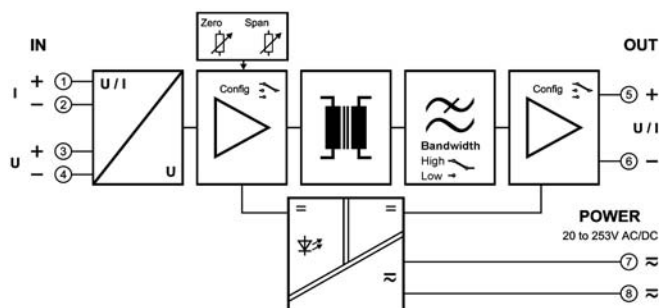
- Average TC in specified operating temperature range
- As far as relevant the standards and rules mentioned above are considered by development and production of our devices. In addition relevant assembly rules are to be considered by installation of our devices in other equipments. For applications with high working voltages, take measures to prevent accidental contact and make sure that there is sufficient distance or insulation between adjacent situated devices.
- Minor deviations possible during interference

Dimensions



mm/inch

Block diagram/Connections



Ordering information:

Product	Input / Output	Part No.
IsoPAQ-60P	$\pm 10\text{V}/\pm 10\text{V}$	70ISP60001
Calibration for other range		70CAL00001