

**isoPAQ-51P**

**High-performance Isolation Transmitter for Unipolar mA Signals with Fixed Range and Zero/Span Adjustment**

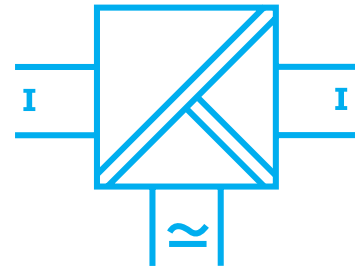


The Isolation Transmitter isoPAQ-51P is used for high-precision isolation of 0(4)-20 mA unipolar signals.

For applications where normally only one signal combination is used, isoPAQ-51P offers a cost-effective alternative.

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.



- **Fixed ranges**  
Ready to use without any settings
- **Zero/Span Adjustment**  
Allow for additional fine-tuning of the measurement loop
- **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-51P

<b>Input</b>		
Input signal	0(4)-20 mA	
Input resistance	Approx. 25 $\Omega$	
Overload	$\leq 200$ mA	
<b>Output</b>		
Output signal	0(4)-20 mA	
Load	$\leq 600$ $\Omega$	
Linear transmission range	-2 to +110 %	
Ripple	< 0.1 % of end value, ~150 kHz	
<b>General data</b>		
Transmission error	$\pm 0.1$ % of end value	
Temperature coefficient <sup>1)</sup>	$\pm 0.01$ %/K of end value	
Zero/Span Adjustment	$\pm 5$ % of end value	
Cut-off frequency (-3 dB)	> 1 kHz	
Test voltage	4 kV, 50 Hz	Input against output against power supply
Working voltage <sup>2)</sup> (Basic Insulation)	600 VAC/DC for overvoltage category II and contamination class 2 acc. to EN 61010 part 1	
Protection against dangerous body currents <sup>2)</sup>	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 (-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 <sup>3)</sup>	EN 61326-1	
Construction	12.5 mm (0.5") housing, protection type: IP 20	
Connection	$\leq 2.5$ mm <sup>2</sup> , AWG 14	
Weight	Approx. 100 g	

1) Average TC in specified operating temperature range

2) 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.

3) Minor deviations possible during interference

### Dimensions

mm/inch

### Block diagram/Connections

### Ordering information:

Product	Input / Output	Part No.
IsoPAQ-51P	0(4)-20 mA / 0(4)-20 mA	70ISP51012