

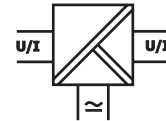
Isolation transmitter for Bipolar and Unipolar mA/V signals with calibrated range selection

The Bipolar Isolation Amplifier IsoPAQ-661 is used for isolation and conversion of bipolar and unipolar industrial standard signals.

The input and output range of IsoPAQ-661 can be easily set by using DIP switch. Due to the calibrated range selection no further adjustment is necessary.

A switchable compensation of the measuring range can be performed at the Zero/Span potentiometers on the front panel. Also the cut-off frequency can be adapted to the measurement task by using the DIP Switch.

The auxiliary power can be supplied via the connection terminals or via the optional In-Rail-Bus connector. A green LED on the front of the unit has been provided to monitor the power supply.



- **Calibrated signal setting via DIP switch**
Input and output range can be set by using DIP switch – high precision without any further adjustment
- **High bandwidth; short response time**
No signal distortion; no falsification of measured signal
- **Switchable Zero/Span compensation**
For readjustment of the sensor or field device
- **3-Port isolation**
Protection against erroneous measurements due to parasitic voltages or ground loops
- **Extremely slim design**
6.2 mm slim housing for a simple and space saving DIN rail mounting
- **Optional In-Rail-Bus mounting rail connector**
allows for fast and economical installation
- **Protective Separation acc. to EN 61140**
Protects service personnel and downstream devices against impermissibly high voltage

Specifications:

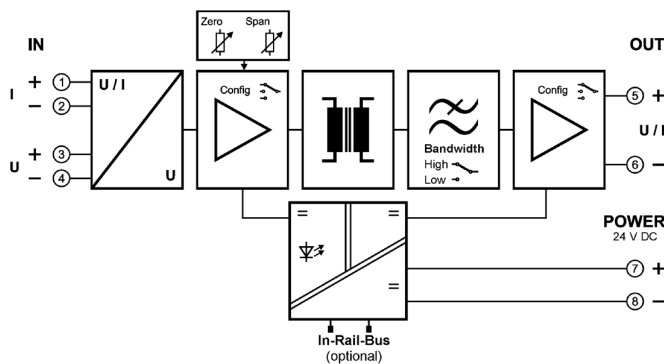
Input	Current			Voltage		
Input signal	±20 mA	0... 20 mA	4... 20 mA	±10 V	0... 10 V	2 ... 10 V
(calibrated switchable)	±10 mA	0... 10 mA	2... 10 mA	±5 V	0... 5 V	1 ... 5 V
Input resistance	≤ 25Ω			≥1 MΩ		
Overload	< 50 mA			< 30 V		
Output	Current			Voltage		
Output signal	±20 mA	0... 20 mA	4... 20 mA	±10 V	0... 10 V	2... 10 V
(calibrated switchable)	±10 mA	0... 10 mA	2... 10 mA	±5 V	0... 5 V	1... 5 V
Load	≤12 V		[600 Ω at 20 mA]	≤5 mA		[2 kΩ at 10 V]
Linear transmission range	unipolar: -1... +110 %			bipolar: -110... +110 %		
Residual ripple	< 10 mV _{rms}					
General Data						
Transmission error	< 0.1 % full scale					
Temperature coefficient ¹⁾	< 100 ppm/K					
Zero/Span compensation (switchable)	±5 % of measuring range					
Cut-off frequency -3 dB (switchable)	8 kHz			100 Hz		
Response time T ₉₉	100 μs			7 ms		
Test voltage	3 kV AC, 50 Hz, 1 min.			Input against output against power supply		
Working voltage ²⁾ (Basic Insulation)	600 V AC/DC for overvoltage category II and pollution degree 2 acc. to EN 61010-1					
Protection against electrical shock ²⁾	Protective separation according to EN 61140 by reinforced insulation in accordance with EN 61010-1 up to 300 V AC/DC for overvoltage category II and pollution degree 2 between all circuits					
Ambient temperature	Operation			-25°C to +70°C (-13 to +158°F)		
	Transport and storage			-40°C to +85°C (-40 to +185°F)		
Power supply	24 V DC			voltage range 16.8 V ... 31.2 V DC, approx. 0.8 W		
EMC ³⁾	EN 61326-1					
Construction	6.2 mm (0.244") housing, protection class IP 20, mounting on 35 mm DIN rail acc. to EN 60715					
Weight	Approx. 70 g					

1) Average TC related to full scale value in specified operating temperature range, reference temperature 23 °C

2) For applications with high working voltages, ensure there is sufficient spacing or isolation from neighboring devices and protection against electric shocks.

3) Minor deviations possible during interference

Block diagram/Connections



Dimensions

