

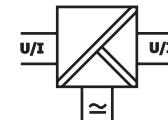
## Isolation transmitter for Bipolar and Unipolar mA/V signals with calibrated range selection

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:

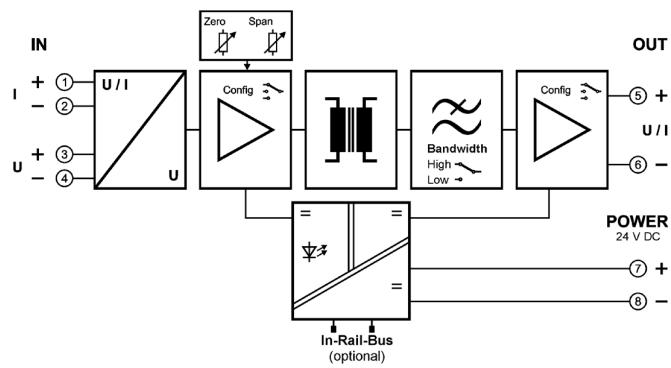
Input	Current			Voltage									
Input signal (calibrated switchable)	$\pm 20$ mA	0 ... 20 mA	4 ... 20 mA	$\pm 10$ V	0 ... 10 V	2 ... 10 V							
	$\pm 10$ mA	0 ... 10 mA	2 ... 10 mA	$\pm 5$ V	0 ... 5 V	1 ... 5 V							
Input resistance	$\leq 25\Omega$			$\geq 1\text{ M}\Omega$									
Overload	$< 50$ mA			$< 30$ V									
Output	Current			Voltage									
Output signal (calibrated switchable)	$\pm 20$ mA	0 ... 20 mA	4 ... 20 mA	$\pm 10$ V	0 ... 10 V	2 ... 10 V							
	$\pm 10$ mA	0 ... 10 mA	2 ... 10 mA	$\pm 5$ V	0 ... 5 V	1 ... 5 V							
Load	$< 12$ V	$(600\Omega$ at 20 mA)		$< 5$ mA	$(2\text{ k}\Omega$ at 10 V)								
Linear transmission range	unipolar: -1 ... +110 %			bipolar: -110 ... +110 %									
Residual ripple	$< 10$ mV <sub>rms</sub>												
General Data													
Transmission error	$< 0.1$ % full scale												
Temperature coefficient <sup>1)</sup>	$< 100$ ppm/K												
Zero/Span compensation (switchable)	$\pm 5$ % of measuring range												
Cut-off frequency -3 dB (switchable)	8 kHz			100 Hz									
Response time T <sub>99</sub>	100 $\mu$ s			7 ms									
Test voltage	3 kV AC, 50 Hz, 1 min.			Input against output against power supply									
Working voltage <sup>2)</sup> (Basic Insulation)	600 V AC/DC for overvoltage category II and pollution degree 2 acc. to EN 61010-1												
Protection against electrical shock <sup>2)</sup>	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			$-25^\circ\text{C}$ to $+70^\circ\text{C}$									
	Transport and storage			$-40^\circ\text{C}$ to $+85^\circ\text{C}$									
Power supply	24 V DC			voltage range 16.8 V ... 31.2 V DC, approx. 0.8 W									
EMC <sup>3)</sup>	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  $23^\circ\text{C}$ 

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

