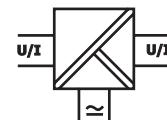


## High-performance isolation transmitter for mA/V Signals with calibrated range selection

The Isolation Amplifier IsoPAQ-641 is used for isolation and conversion of 0/4 ... 20 mA and 0/2 ... 10 V standard signals.

The input and output range of IsoPAQ-641 can be easily set by using DIP switch. Due to the calibrated range selection no further adjustment is necessary. 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
- **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
- **Maximum reliability**  
No maintenance costs

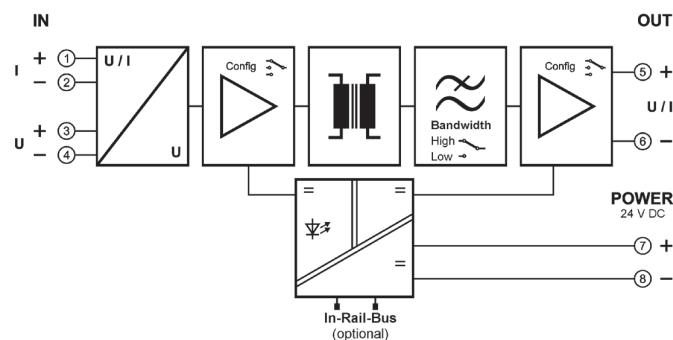
**Specifications:**

<b>Input</b>		
Input signal (calibrated switchable)	0 ... 20 mA 0 ... 10 V	4 ... 20 mA 2 ... 10 V
Input resistance	Current input Voltage input	$\leq 25 \Omega$ $\geq 100 \text{ k}\Omega$
Overload	Current input Voltage input	$< 50 \text{ mA}$ $< 30 \text{ V}$
<b>Output</b>		
Output signal (calibrated switchable)	0 ... 20 mA 0 ... 10 V	4 ... 20 mA 2 ... 10 V
Load	Current output: $\leq 12 \text{ V}$ ( $600 \Omega$ at 20 mA)	Voltage output: $\leq 5 \text{ mA}$ ( $2 \text{ k}\Omega$ at 10 V)
Linear transmission range	-1 ... +110 %	
Residual ripple	$< 10 \text{ mV}_{\text{rms}}$	
<b>General Data</b>		
Transmission error	$< 0.1 \%$ full scale	
Temperature coefficient <sup>1)</sup>	$< 100 \text{ ppm/K}$	
Cut-off frequency -3 dB (switchable)	5 kHz	100 Hz
Response time T <sub>99</sub>	150 $\mu\text{s}$	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°C to +70°C
	Transport and storage	-40°C to +85°C
Power supply	24 V DC	voltage range 16.8 V ... 31.2 V, approx. 0.7 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 °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**