

**USER INSTRUCTIONS** 

Enalish

# **Isolation Transmitter**

150PAO-70S





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The user instruction must be read prior to adjust and/or installation All information subject to change without notice.



This product should not be mixed with other kind of scrap, after usage. It should be handled as an electronic/electric device.

### MEASURE OF SUCCESS

## IsoPAQ-70S

### 1. Before Startup



When operating the isolating transmitter, certain parts of the module can carry dangerous voltage! Ignoring the warnings can lead to serious injury and/or cause

The isolation transmitter should only be installed and put into operation by qualified staff. The staff must have studied the warnings in these operating instructions thoroughly.

The transmitter may not be put into operation if the housing is open.

In applications with high operating voltages sufficient distance and isolation as well as shock protection must be ensured.

Safe and trouble-free operation of this device can only be guaranteed if transport, storage and installation are carried out correctly and operation an maintenance are carried out with care.



Appropriate safety measures against electrostatic discharge (ESD) should be taken during range selection and assembly on the transmitter.

#### 2. Short description

The 3-way isolation transmitter is used for electrical isolation and conversion of unipolar shunt voltages into 0 - 20 mA, 4 - 20 mA and 0 - 10 V standard signals. The input range is selectable by input terminals and the output range can be set by using DIP switch. Due to the calibrated range selection no further adjustment is necessary.

The 3-way isolation guarantees reliable decoupling of the sensor circuit from the processing circuit and prevents linked measurement circuits from influencing each other.

#### 3. Functioning

The input signal is modulated and then electrically decoupled using a transformer. The isolated signal is then made available at the output, demodulated, filtered and amplified.

## 4. Configuration

### 4.1 Equipment

A screwdriver with a width of 2.5 mm is required to open the unit and to connect the wires to the screw clamp terminals

## 4.1 Opening the unit

Using a screwdriver, release the snap fittings of the upper part of the housing on both sides (1). The upper part of the housing and the electronics can now be pulled out by approximately 3 cm (2).



Set the output range with DIP switch (3) as indicated in the following table:



3
0000

	Output	Sv	Switch • = on			
		1	2	3	4	5
0	0 - 10 V	•	•			
	0 - 20 mA					
	4 - 20 mA			•		

o = Factory setting

### 5. Mounting, electrical connection

The isolation transmitter is mounted on standard 35 mm DIN rail.

Ten	minal assignments		
1	Input + 0 - 60 mV Input -		
3 4	Input + 0 - 150 mV Input -		
5 6	Output + Output -		
7 8	Power supply $\cong$ Power supply $\cong$		

## 6. Order information

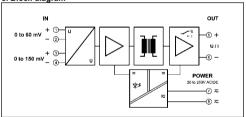
Product	Input / Output	Part No.	
IsoPAQ-70S	Calibrated range selection	70ISS70001	Ī

### 7. Technical Data

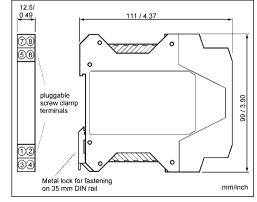
Input				
Input signal (terminal selectable)	0 - 60 mV	0 - 150 mV		
Input resistance	> 25 KΩ			
Overload	Voltage limitation via 30 V Z-Diode, max. continuous current 30 mA			
Output				
Output signal (switch selectable)	0 - 10 V <sup>1)</sup>	0 - 20 mA	4 - 20 mA	
Load	Current output Voltage output			
Offset	$\pm$ 20 $\mu$ A / $\pm$ 10 mV			
Ripple	< 20 mV <sub>rms</sub>			
General data				
Transmission error	± 0,3 % of measured value			
Temperature coefficient <sup>2)</sup>	± 0,015 %/K of end value			
Cut-off frequency (-3 dB)	Approx. 1 kHz			
Test voltage	2.5 kV, 50 Hz			
		utput against po		
Working voltage <sup>3)</sup>	600 V AC/DC for overvoltage category II and			
(Basic insulation)	contamination class 2 acc. to EN 61010 part 1			
Ambient temperature	Operation		°C (+14 to +140 °F)	
	Transport and storage		) °C (-4 to +176 °F)	
Power supply	20 to 253 V AC/		62 Hz, approx. 3 VA	
		DC approx	x. 1,5 W	
EMC <sup>4)</sup>	EN 61326-1			
Construction	12,5 mm (0.5") housing, protection type: IP 20			
Connection	≤ 2.5 mm <sup>2</sup> , AWG 14			
Weight	Approx. 100 g			
1) Factory setting				

- 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

### 8. Block diagram



### 9. Dimensions



### LIMITED WARRANTY

INOR Process AB, or any other affiliated company within the Inor Group (hereinafter jointly referred to as "Inor"), hereby warrants that the Product will be free from defects in materials or workmanship for a period of five (5) years from the date of delivery ("Limited Warranty"). This Limited Warranty is limited to repair or replacement at Inor's option and is effective only for the first end-user of the Product. Upon receipt of a warranty claim. Inor shall respond within a reasonable time period as to its decision concerning:

- 1. Whether Inor acknowledges its responsibility for any asserted defect in materials or workmanship; and, if so,
- 2. the appropriate cause of action to be taken (i.e. whether a defective product should be replaced or repaired by

This Limited Warranty applies only if the Product:

- 1. is installed according to the instructions furnished by
- 2. is connected to a proper power supply:
- 3. is not misused or abused; and
- 4. there is no evidence of tampering, mishandling, neglect, accidental damage, modification or repair without the approval of Inor or damage done to the Product by anvone other than Inor.

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