

USER INSTRUCTIONS

Enalish

Isolation Transmitter

ISOPAO-41P





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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-41P

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 0 - 20 mA, 4 - 20 mA and 0 - 10 V signals. For applications where normally only one signal combination is used, IsoPAQ-41P offers a cost-effective alternative. The signal combination is selected by the Part No.

The 3-way isolation guarantees reliable decoupling of the sensor circuit from the processing circuit and prevents linked measurement circuits from influencing each other. The Protective Separation with high isolation level provides protection for personnel and downstream devices against impermissibly high voltage.

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 Equipment

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

5. Mounting, electrical connection

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

Terminal assignments							
1 2 3 4	Input Input Input Input	+ - + -	Current Current Voltage Voltage				
5 6 7 8	Output Output Power supply Power supply	+ - ≅ ≅	-				

6. Order information

Product	Input / Output	Part No.
IsoPAQ-41P	0 - 20 mA / 0 - 20 mA	70ISP41012
	4 - 20 mA / 0 - 20 mA	70ISP41032
	0 - 10 V / 0 - 20 mA	70ISP41052
	0 - 20 mA / 4 - 20 mA	70ISP41014
	4 - 20 mA / 4 - 20 mA	70ISP41012
	0 - 10 V / 4 - 20 mA	70ISP41054
	0 - 20 mA / 0 - 10 V	70ISP41016
	4 - 20 mA / 0 - 10 V	70ISP41036
	0 - 10 V / 0 - 10 V	70ISP41056

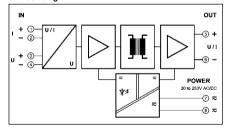
7. Technical Data

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Input					
Input signal (factory set as ordered)	0 - 20 mA	4 - 20 mA	0 - 10 V		
Input resistance	Current input Voltage input	22 Ω 1 MΩ			
Input capacitance	Approx. 1 nF				
Overload	Current input Voltage input		ion via 30 V Z-Diode, ous current 30 mA		
Output					
Output signal (factory set as ordered)	0 - 20 mA	4 - 20 mA	0 - 10 V		
Load	Current output Voltage output	≤ 600 Ω ≤ 1 kΩ			
Linear transmission range	- 2 + 110 %				
Ripple	< 10 mV _{rms}				
General data					
Transmission error	± 0,1 % of end value				
Temperature coefficient ¹⁾	± 0,005 %/K of end value				
Cut-off frequency (-3 dB)	> 1 kHz				
Test voltage	4 kV, 50 Hz				
	Input against output against power supply				
Working voltage ²⁾ (Basic insulation)	600 V AC/DC for overvoltage category II and contamination class 2 acc. to EN 61010 part 1				
Protection against dangerous body currents ²⁾					
Ambient temperature	Operation Transport and storage		70 °C (-4 to 158 °F) 35 °C (-31 to 185 °F)		
Power supply 20 to 253 V AC/DC AC 48 62 Hz, approx. 2 \(\text{DC approx. 1,0 W} \)					
EMC ³⁾	EN 61326 -1				
Construction	12,5 mm (0.5") housing, protection type: IP 20				
Connection	≤ 2.5 mm², AWG 14				
Weight	Approx. 100 g				
Average TC in specified As far as relevant the second control of the second con			above are considere		

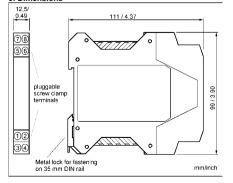
2) As far as relevant the standards and rules mentioned above are considered by development and production of our devices. In addition relevant assembly rules are to be considered by installation of our devices in other equipments. For applications with high working voltages, take measures to prevent accidental contact and make sure that there is sufficient distance or insulation between adjacent situated devices.

3) Minor deviations possible during interference

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.

This Limited Warranty is provided by Inor and contains the only express warranty provided.

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Products that are covered by the Limited Warranty will either be repaired or replaced at the option of Inor. Customer pays freight to Inor, and Inor will pay the return freight by post or other "normal" way of transport. If any other type of return freight is requested, customer pays the whole return cost.

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