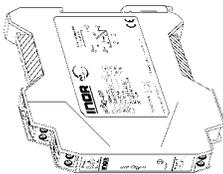


INOR
USER INSTRUCTIONS
English
Isolation Transmitter

ISOPAQ-41P



www.inor.com, www.inor.se

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

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 damage!

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

6. Order information

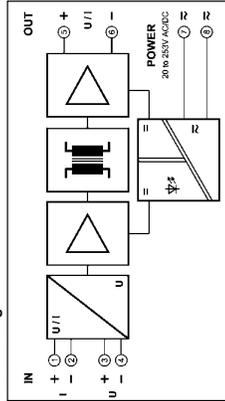
Product	Input / Output	Part No.
IsoPAQ-41P	0 - 20 mA / 0 - 20 mA	70ISP41012
	4 - 20 mA / 0 - 20 mA	70ISP41032
	0 - 10 V / 0 - 20 mA	70ISP41052
	0 - 20 mA / 4 - 20 mA	70ISP41014
	4 - 20 mA / 4 - 20 mA	70ISP41012
	0 - 10 V / 4 - 20 mA	70ISP41054
	0 - 20 mA / 0 - 10 V	70ISP41016
	4 - 20 mA / 0 - 10 V	70ISP41036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

7. Technical Data

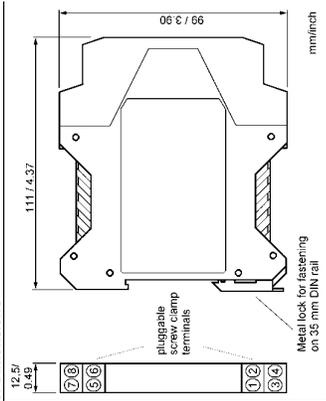
Input	0 - 20 mA	4 - 20 mA	0 - 10 V
Input signal (factory set as ordered)			
Input resistance	Current input 22 Ω	Voltage input 1 MΩ	
Input capacitance	Approx. 1 nF		
Overload	Current input ≤ 200 mA	Voltage input 30 V Z-Diode, max. continuous current 30 mA	
Output	0 - 20 mA	4 - 20 mA	0 - 10 V
Output signal (factory set as ordered)			
Load	Current output ≤ 600 Ω	Voltage output ≤ 1 kΩ	
Linear transmission range	-2 ... +110 %		
Ripple	< 10 mV _{rms}		
General data			
Temperature coefficient ¹⁾	± 0.005 %/K of end value		
Cut-off frequency (-3 dB)	> 1 kHz		
Test voltage	4 kV, 50 Hz		
Working voltage ²⁾	600 V AC/DC for overvoltage category II and contamination class 2 acc. to EN 61010 part 1		
Protection against dangerous body currents ³⁾	Protective Separation by reinforced insulation acc. to EN 61010 part 1 up to 300 V AC/DC for overvoltage category II and contamination class 2 between input and output and power supply.		
Ambient temperature	Operation - 20 °C to + 70 °C (+ 4 to 158 °F)	Transport - 35 °C to + 85 °C (- 31 to 185 °F)	
Power supply	20 to 253 V AC/DC AC 48 ... 62 Hz, approx. 2 VA and storage DC approx. 1.0 W		
EMC ⁴⁾	EN 61328-1		
Construction	12.5 mm (0.5") housing, protection type: IP 20		
Connection	< 2.5 mm ² , AWG 14		
Weight	Approx. 100 g		

1) Average TC in specified operating temperature range
 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:

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

This Limited Warranty applies only if the Product:

- is installed according to the instructions furnished by Inor;
- is connected to a proper power supply;
- is not misused or abused; and
- 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 anyone other than Inor.

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

INOR SPECIFICALLY DISCLAIMS ANY EXPRESS WARRANTY NOT PROVIDED HEREIN AND ANY IMPLIED WARRANTY, GUARANTEE OR REPRESENTATION AS TO SUITABILITY FOR ANY PARTICULAR PURPOSE, PERFORMANCE, QUALITY AND ABSENCE OF ANY HIDDEN DEFECTS, AND ANY REMEDY FOR BREACH OF CONTRACT, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. EXCEPT AS PROVIDED HEREIN, INOR FURTHER DISCLAIMS ANY RESPONSIBILITY FOR LOSSES, EXPENSES, INCONVENIENCES, SPECIAL, DIRECT, SECONDARY OR CONSEQUENTIAL DAMAGES ARISING FROM OWNERSHIP OR USE OF THE PRODUCT.

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.

