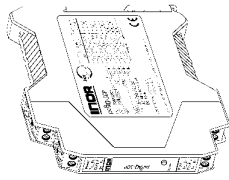




INOR
USER INSTRUCTIONS English
Isolation Transmitter

ISO PAQ-30P



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.
is product should not be mixed with other kind of scrap, after usage.
It should be handled as an electronic device.
MEASURE OF SUCCESS

ISO PAQ-30P

. 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 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. The input and output range can be set by using DIP switch and 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

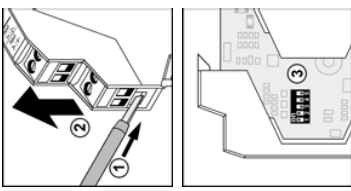
4.1 Equipment
A screwdriver with a width of 2,5 mm is required to open the unit and to connect the wires to the screw clamp terminals.

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).

4.3 Settings

Set the input and output ranges with DIP switch (3) as indicated in the following table:



Input	Output	Switch	1	2	3	4	5
0 - 20 mA	0 - 20 mA						
4 - 20 mA	0 - 20 mA						
0 - 10 V	0 - 20 mA						
0 - 20 mA	4 - 20 mA						
4 - 20 mA	4 - 20 mA						
0 - 10 V	4 - 20 mA						
0 - 20 mA	0 - 10 V						
4 - 20 mA	0 - 10 V						
0 - 10 V	0 - 10 V						

o = Factory setting

5. Mounting, electrical connection

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

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

Warning!
Do not operate inputs for current and voltage simultaneously!

6. Order information

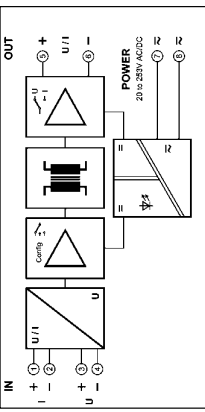
Product	Input / Output	Part No.
ISO PAQ-30P	Calibrated range selection	70ISP30001

7. Technical Data

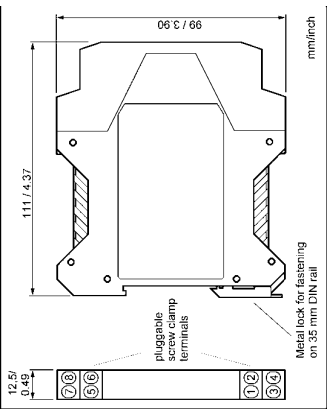
Input (terminal/switch selectable)	0 - 20 mA¹⁾	4 - 20 mA	0 - 10 V
Input signal			
Input resistance	Current input 22 Ω		
	Voltage input 1 MΩ		
Overload			
Current input	≤ 200 mA		
Voltage input	Voltage limitation via 30 V Z-Diode, max. continuous current 30 mA		
Output (switch selectable)	0 - 20 mA¹⁾	4 - 20 mA	0 - 10 V
Output signal			
Load	Current output ≤ 500 Ω		
	Voltage output ≤ 1 kΩ		
Offset	± 20 μA / ± 10 mV		
Ripple	< 20 mV _{rms}		
General data			
Transmission error	± 0.5 % of measured value		
Temperature coefficient ²⁾	± 0.015 %/K of end value		
Cut-off frequency (-3 dB)	Approx. 1 kHz		
Test voltage	2.5 kV 50 Hz		
Input against output	Input against power supply		
Working voltage ³⁾	600 V AC/DC for overvoltage category II and contamination class 2 acc. to EN 61010 part 1		
Ambient temperature	Operation - 10 °C to + 60 °C (+14 to +140 °F)		
	Transport - 20 °C to + 80 °C (-4 to +176 °F)		
Power supply	20 to 253 V AC/DC AC 48 ... 62 Hz approx. 3 VA		
EMC ⁴⁾	EN 61326-1		
Construction	12.5 mm (0.5") housing, protection type: IP 20		
Connection	≤ 2.5 mm ² AWG 14		
Weight	Approx. 100 g		

1) Factory setting
As 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.
4) 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.

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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.