

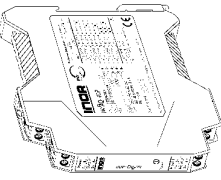
INOR

USER INSTRUCTIONS

English

Isolation Transmitter

ISOPAQ-40P



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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/electric device.

MEASURE OF SUCCESS

ISOPAQ-40P

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. 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. The Protective Separation with high isolation level provides protection for personnel and downstream devices against impermissible 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. Configuration

4.1 Equipment

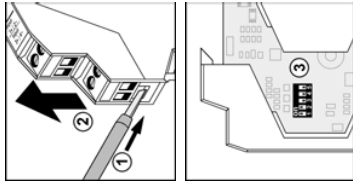
4.1 Opening the unit

4.3 Settings

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.

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



Input	Output	Switch	• = on
0 - 20 mA	0 - 20 mA	1	2
4 - 20 mA	0 - 20 mA	3	4
0 - 10 V	0 - 20 mA	5	
0 - 20 mA	0 - 20 mA		
4 - 20 mA	0 - 20 mA		
0 - 10 V	0 - 20 mA		
0 - 20 mA	0 - 10 V		
4 - 20 mA	0 - 10 V		
0 - 10 V	0 - 10 V		
Bandwidth 30 Hz			
Bandwidth 1 kHz			

5. Mounting, electrical connection
The isolation transmitter is mounted on standard 35 mm DIN rail.

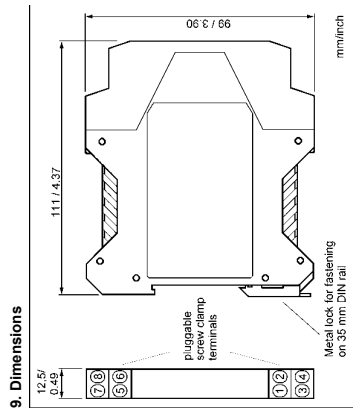
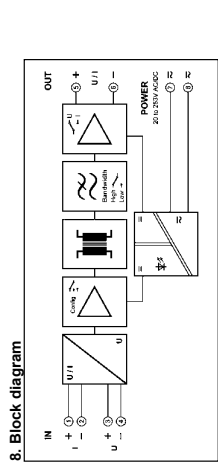
Terminal assignments

Warning!

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-40P	Calibrated range selection	70ISP40001

7. Technical Data		
Input (terminal/switch selectable)	0 - 20 mA ¹⁾	4 - 20 mA
	Current input	22 Ω
	Voltage input	1 MΩ
	Input resistance	
Overload	Approx. 1 nF	
	Current input	≤ 200 mA
	Voltage input	Voltage limitation via 30 V Z-Diode, max. continuous current 30 mA
Output (switch selectable)	0 - 20 mA ¹⁾	4 - 20 mA
	Current output	≤ 600 Ω
	Voltage output	≤ 1 kΩ
	Linear transmission range	-2 ... +110 %
Ripple	Transmission error	± 0.1 % of end value
	Temperature coefficient ²⁾	± 0.005 %/K of end value
	Cut-off frequency (3 dB)	> 1 kHz ²⁾ switchable to < 30 Hz
	Test voltage	4 kV, 50 Hz
Working voltage ³⁾ (Basic insulation)	Input against output against power supply	
	600 V AC/DC for overvoltage category II and contamination class 2 acc. to EN 61010 part 1	
	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 and storage	-35 °C to +85 °C (-31 to 185 °F)
	Power supply	20 to 253 V AC/DC AC 48 ... 62 Hz, approx. 2 VA
	EMC ⁴⁾	EN 61328-1
Construction	EN 61328-1	
	12.5 mm (0.5") housing, protection type: IP 20	
	Connection	≤ 2.5 mm ² , AWG 14
	Weight	Approx. 100 g



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.