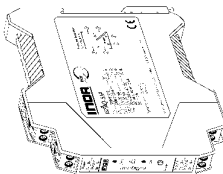


INOR
USER INSTRUCTIONS
English
Isolation Transmitter

ISO PAQ-51P



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

ISO PAQ-51P

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. The adjustment with the potentiometer on the front may only be carried out with a screwdriver which is securely insulated against the input voltage!

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 of 0(4) - 20 mA signals. The Zero/Span Adjustment on the front allow a fine-tuning of the measurement loop.

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	Input +
2	Input -
5	Output +
6	Output -
7	Power supply +
8	Power supply -

6. Order information

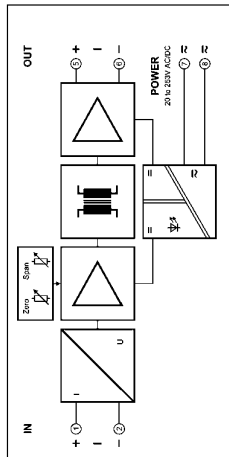
Product	Input / Output	Part No.
ISO PAQ-51P	0(4) - 20 mA / 0(4) - 20 mA	70SP51012

7. Technical Data

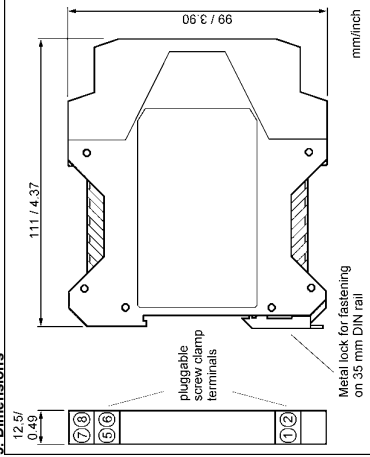
Input	0(4) - 20 mA
Input resistance	Approx. 25 Ω
Overload	≤ 200 mA
Output	0(4) - 20 mA
Load	≤ 600 Ω
Linear transmission range	- 2 ... + 110 %
Ripple	< 10 mV _{rms}
General data	
Transmission error	± 0.1 % of end value
Temperature coefficient ¹⁾	± 0.01 %/K of end value
Zero/Span Adjustment	± 5 % of end value
Cut-off frequency (-3 dB)	> 1 kHz
Test voltage	4 kV, 50 Hz
Input against output against power supply	600 V AC/DC for overvoltage category II and contamination class 2 acc. to EN 61010 part 1
(Basic insulation)	Protective Separation by reinforced insulation acc. to EN 61010 part 1 (up to 600 V AC)
Protection against dangerous body currents ²⁾	Applicable to the protection 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) and storage
Power supply	20 to 253 V AC/DC AC 48 ... 62 Hz, approx. 2 VA
EMC ³⁾	EN 61326-1 DC approx. 1.0 V
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, such applications with high working voltages, like measures to prevent electric shock and to ensure 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 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.