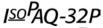


USER INSTRUCTIONS English

Isolation Signal Splitter





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.

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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-32

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 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

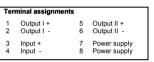
The Isolation Signal Splitter is used for isolation, conversion and distribution of 0/4 ... 20 mA and 0 ... 5/10 V standard process signals. The input signal and two output signals each can be separately selected by the Order No.

The 4-Port-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.

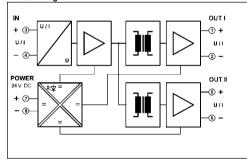
3. Functioning

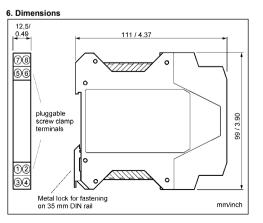
The input signal is modulated and then electrically decoupled using a transformer. The isolated signal is then made available at two outputs, demodulated, filtered and amplified.

4. Mounting, Electrical Connection The isolation amplifier is mounted on standard 35 mm DIN rail.



5. Block Diagram





Input signal	0 20 mA	0 5 V	
(see Product line)	4 20 mA	0 10 V	
Input resistance	Current input Voltage input	30 Ω 500 kΩ	
Overload	Current input Voltage input	≤ 200 mA ≤ 30 V	
Output			
Output signal (see Product line)	0 20 mA 4 20 mA	0 5 V 0 10 V	
Load	Current output Voltage output	≤ 500 Ω ≥ 2 kΩ	
Offset	20 µA, 10 mV		
Ripple	< 10 mV _{rms}		
General data			
Transmission error	< 0.1 % of fina	l value	
Temperature coefficient1)	< 0.015 % of fi	nal value / K	
Response time	< 5 ms		
Test voltage	2.5 kV, 50 Hz		
	input against o	utput against power supply	
Working voltage ²⁾ (Basic insulation)		AC/DC for overvoltage category II and are 2 acc. to EN 61010-1 between	
Protection against dangerous body currents ²⁾	reinforced i EN 61010-1	varation according to EN 61140 nsulation in accordance w up to 300 V AC/DC for overvoltar nd pollution degree 2 between	
Ambient temperature	Operation Transport and storage	- 10 °C to + 60 °C (+14 to 140 °F) - 20 °C to + 80 °C (-4 to 176 °F)	
Power supply	24 V DC (20.	30 V DC) approx. 1,5 W	
EMC ³⁾	EN 61326 -1		
Construction) housing, protection type: IP 20	
Connection	\leq 2.5 mm ² , AW	/G 14	
Weight	Approx. 100 g		

2) As fail as determining statutions and roles interitorined acuve are obtained 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. Order Information

Product		Part No.			
IsoPAQ-32P		70ISP32	Х	Х	Х
Input	0 20 mA		0		
	4 20 mA		1		
	0 5 V		2		
	0 10 V		3		
Output I	0 20 mA			0	
	4 20 mA			1	
	0 5 V			2	
	0 10 V			3	
Output II	0 20 mA				0
	4 20 mA				1
	0 5 V				2
	0 10 V				3

Other signals on request.

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: 1. is installed according to the instructions furnished by

- Inor;
- is connected to a proper power supply;
- 3. is not misused or abused; and
- there is no evidence of tampering, mishandling, neglect, accidental damage, modification or repair without the approval of lnor or damage done to the Product by anyone other than lnor.

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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