

USER INSTRUCTIONS

Enalish

Isolation Transmitter

ISOPAO-161P





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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-161P

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

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.

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 amplifier is used for electrical isolation and conversion of bipolar and unipolar process signals. The signal combination is selected by the Order 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.

5. Mounting, electrical connection

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

ĺ	Terminal assignments						
	1	Input + Input -	5 6	Output + Output -			
	3 4	-	7 8	$\begin{array}{l} \text{Power supply} \cong \\ \text{Power supply} \cong \end{array}$			

6 Order information

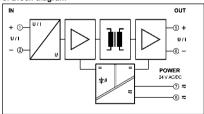
Product		Part No.		
IsoPAQ-161P		70ISC161-	Χ	Х
Input	± 10 V		1	
	± 5 V		2	
	0 5 V		3	
	\pm 20 mA		4	
	± 10 mA		5	
Output	0 20 mA			2
	4 20 mA			4
	0 5 V			5
	0 10 V			6
Power connector set for	up to 10 units	70ADA0003	0	

7 Technical Data

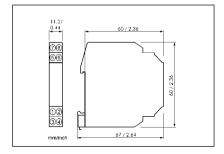
Input			
Input signal	± 10 V	± 5 V	0 - 5V
(see Product line)	± 20 mA	± 10 mA	
Input resistance	Current input	5 Ω	
	Voltage input	1 MΩ	
Overload	Current input Voltage input	≤ 200 mA	
	voltage input	≤ 250 V	
Output			
Output signal	0 - 10 V	0 - 5V	
(see Product line)	0 - 20 mA	4 - 20 mA	
Load	Current output	$\leq 500 \Omega$	
	Voltage output	$\geq 2 k\Omega$	
Ripple	< 10 mV _{rms}		
General data			
Transmission error	< 0.2 % of mea	asuring span	
Temperature coefficient ¹⁾	< 0.02 % /K		
Response time	< 5 ms		
Test voltage	2.5 kV, 50 Hz		
	input against o	utput against	power supply
Working voltage ²⁾			vervoltage category I
(Basic insulation)	and pollution between all cir		acc. to EN 61010-1
Protection against	Protective sep	aration acco	rding to EN 61140 by
dangerous body currents2)	reinforced insulation in accordance		
			AC/DC for overvoltage
		nd pollution	degree 2 between al
	circuits.		
Ambient temperature	Operation		55 °C (+32 to +131 °F
	Transport	-25 to +	80 °C (-13 to +176 °F
	and storage		
Power supply	24 V AC/DC		2 Hz, approx. 2 VA
	± 15 %	DC approx.	0,7 W
EMC ³⁾	EN 61326 -1		
Construction	11,2 mm (0.44	") housing, p	rotection type: IP 20
Connection	≤ 2.5 mm ² , AW	/G 14	
Weight	Approx. 50 a		

- 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:

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

This Limited Warranty applies only if the Product:

- 1. is installed according to the instructions furnished by
- is connected to a proper power supply;
- 3. is not misused or abused; and
- 4. 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 anvone 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.

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