ISOLATED SIGNAL CONVERTER

Series ISC SIGNAL CONVERTERS WITH GALVANIC ISOLATION

A N

🕴 Signal Converters for :

P†100 / RTD

Thermocouple J,K,T,E,S,R

Process in mA and Vdc

Frequencies

Voltages in AC and DC

Currents in AC and DC

Loadcells

Potentiometers





F	3	way (Galvanic	Isolation	(60 :	seconds	;)
		Input	- Outp	ut	3500	Veff	
		Input	- Powe	er	3500	Veff	
		Outpu	ut - Powe	er	1500	/3500 Ve	ff

Configurable Output in 4/20 mA, 0/10 Vdc or others Input ranges jumper selectable Readjustment by frontal trimmers Access to trimmers through front cover

🗰 Standard DIN rail mount



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INFORMATION (1763R0)

TECHNICAL DATA – ISC

General Specifications

The ISC series is a full range of signal converters, with available outputs in 0/10 Vdc or 4/20 mA, which adds to the measuring system a high level of galvanic isolation between input, output and power circuits.

The wide range of available models cover applications from process signals in mA and Vdc, temperatures from thermocouple types J, K, T, E, S, R and PT100/ RTD probes, voltages and currents in AC and DC, shunt signals, X/5 and X/1 current transformers, frequencies, potentiometers ... and more.

The high level of galvanic isolation provided by ISC units protects the inputs of the PLC or other remote acquisition system, by isolating at the same time the grounds or references of each circuit.

The accuracy of the ISC units is designed to be used with 12 bit acquisition systems.

All ISC units are allowed to configure several input and output ranges, adjusting the accuracy of the instrument to the desired useful signal range both at input and output. Adjustment potentiometers and range selection jumpers are both accessible through the front cover of the instrument.

References

	Model	Power	Adjust (examples)
ISC -	-	-	
	P PT100 TJ TK TT TE TS TR VDC VAC IDC IAC HZ LC POT RES	0 (230 Vac) 1 (115 Vac) 6 (24 Vdc)	4/20 mA = 0/10 Vdc 0/ 100°C = 4/20 mA 0/ 700°C = 4/20 mA 0/1200°C = 0/10 Vdc 0/ 400°C = 0/10 Vdc 0/ 800°C = 4/20 mA 0/1600°C = 4/20 mA 0/1700°C = 0/10 Vdc 0/350Vdc = 0/10 Vdc 0/175 Vac = 4/20 mA 0/3.5 Adc = 4/20 mA 0/5 Aac = 0/10 Vdc 0/1500Hz = 0/10 Vdc 0/20 mV = 4/20 mA 0/100% = 4/20 mA

Dimensions



IDEAL SOLUTION for converting and conditioning all type of analogue signals to standard process signals in mA or Vdc, which will be further retransmitted to a PLC or remote acquisition system, while protecting the inputs with high galvanic isolation levels and minimizing noise problems due to ground interconnections.

Technical Data

ACCURACY <0.2% and <0.3% LINEARITY THERMAL DRIFT **RESPONSE TIME** POWER CONSUMPTION OUTPUTS **ISOLATION OUTPUTS IN Vdc** OUTPUTS IN mA OPERATING TEMP. STORAGE TEMP. PROTECTION WEIGHT WIDTH MOUNTING

<0.1% and <0.2% <150ppM and <250 ppM/°C typical <70 mSec. and <250 mSec.

230 VAC, 115 VAC, 24 VDC <3 8 VA 0/10 Vdc, 4/20 mA and others 3500 Veff - 60 Seconds

max 11 Vdc approx. min -1 Vdc approx. Load R > 1KOhm

max 22 mA approx. min -1.5 mA approx. Load R < 400 Ohm

from 0 to +60 °C from -20 to +70 °C IP30 120 gr. and 200 gr.

22,5 mm and 37mm Standard DIN rail

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