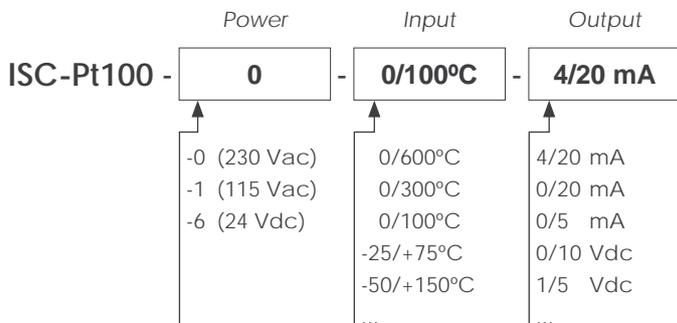


ISC-Pt100 Signal converter for Pt100

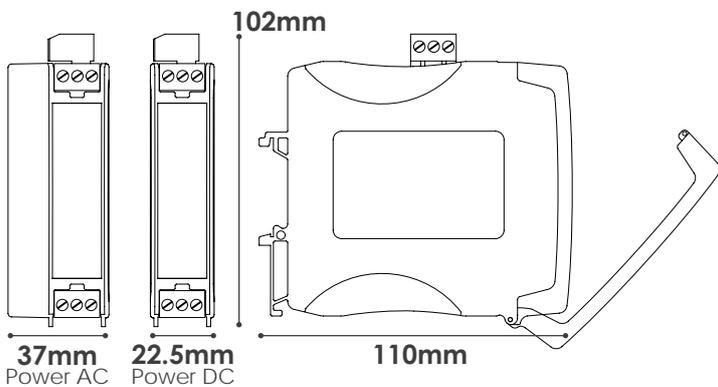
Signal converter for Pt100 probes with 2 and 3 wires, DIN rail mounting. Signal ranges selectable up to 600°C and down to -50°C with output ranges in 4/20mA or 0/10Vdc. Power options in AC and DC. High isolation between input, output and power circuits.



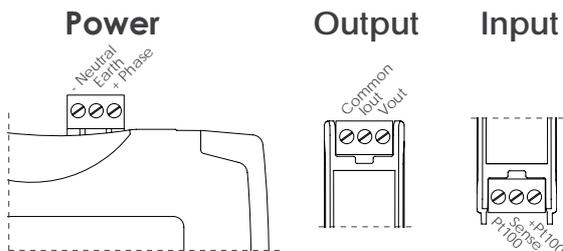
Order reference



Dimensions



Connections



Technical specifications

Signal	Input ranges*
Pt100	0/600 °C
Pt100	0/450 °C
Pt100	0/300 °C
Pt100	0/200 °C
Pt100	0/100 °C
Pt100	-50/+150 °C
Pt100	-25/+75 °C

Output ranges*	Type	Load
4/20 mA	active	<400 Ohm
0/20 mA	active	<400 Ohm
0/10 Vdc	active	>1 K Ohm
0/1 Vdc	active	>1 K Ohm

* Intermediate input and output ranges are available, operating the Span and Offset potentiometers.

General

Signal	Pt100 (2 and 3 wires)
Alpha	0.00385
Cable compensation	up to 10 Ohms
Excitation voltage	1 Vdc
Sensor break	output to high
Accuracy	0.2% F.S.
Linearity	0.1% F.S.
Thermal drift	250 ppm/°C
Response time	<250mSec. (0% to 90% signal)
Bandwidth	20Hz (-3dB)

Power

Power	230Vac, 115Vac and 24Vdc
Consumption	<3.8VA

Isolation*

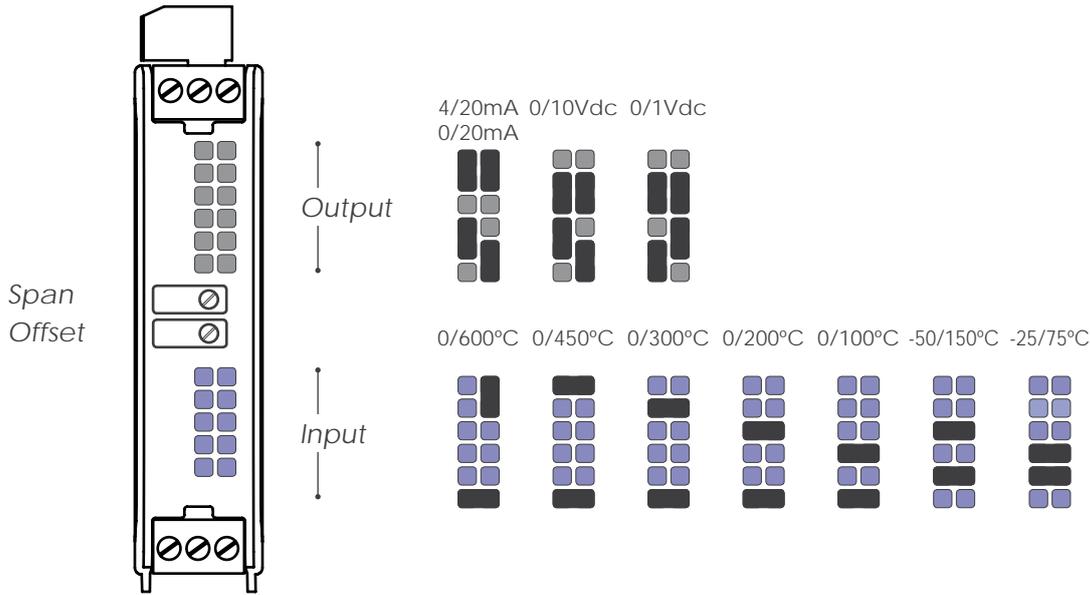
Input-output	3500Veff, optical
Power-input	3500Veff, galvanic
Power-output	3500Veff, galvanic (with AC power) 1000Veff, galvanic (with DC power)

* instrument isolated 3 ways, isolation tested during 60 sec.

Mechanical

Mounting	DIN rail standard (35x7.5mm)
Connections	pug-in screw terminal
Weight	120 grams (with DC power) 200 grams (with AC power)
Housing material	polyamide PA6 UL94 V2
Protection	IP30

Jumpers for range selection



Isolated signal converters Series ISC

	Model															
	ISC-LC	ISC-RES	ISC-HZ	ISC-POT	ISC-IDC	ISC-VDC	ISC-IAC	ISC-VAC	ISC-TS	ISC-TR	ISC-TE	ISC-TT	ISC-TK	ISC-TJ	ISC-PT100	ISC-P
Signals accepted																
Process																•
Pt100 / RTD															•	
Thermocouple J														•		
Thermocouple K													•			
Thermocouple T												•				
Thermocouple E											•					
Thermocouple R										•						
Thermocouple S										•						
Voltages AC											•					
Currents AC												•				
Voltages DC															•	
Currents DC																•
Potentiometers																•
Frequency																•
Resistances																•
Load cells																•

Meters for 4/20mA



Process panel meter
48x24mm - L35/A



Process panel meter
72x36mm - S40-P



Process panel meter
96x48mm - M40-P



Process meter
60mm digit - BDF-24



Process panel meter
100mm digit - BDF-44