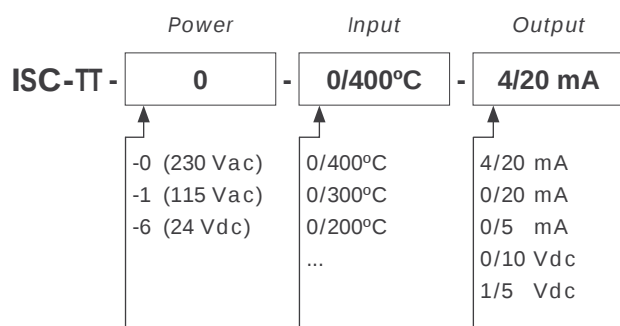


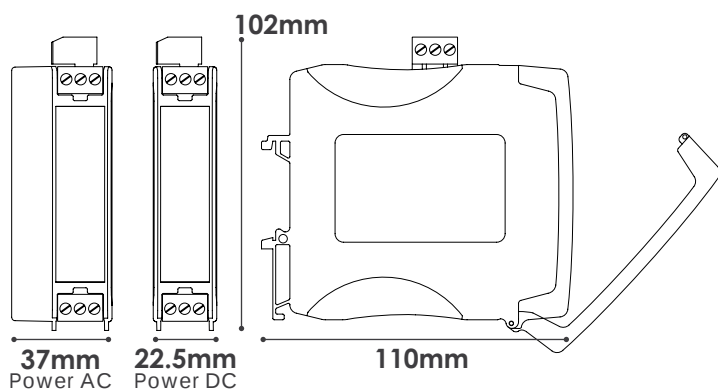
ISC-TT Signal converter for Thermocouple T

Signal converter for thermocouple type TT, DIN rail mounting. Signal ranges selectable up to 400°C, with output ranges in 4/20mA or 0/10Vdc. Automatic cold junction compensation. Power options in AC and DC. High isolation between input, output and power circuits.

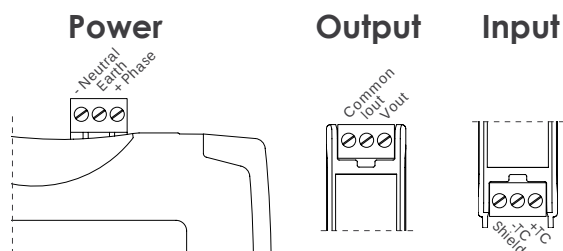
Order reference



Dimensions



Connections



Technical specifications

Signal	Input ranges*
Thermocouple T	0/400 °C
Thermocouple T	0/300 °C
Thermocouple T	0/200 °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	Thermocouple T
Cold junction	automatic compensation
Sensor break	output to high
Input impedance	1 MOhm
Maximum overvoltage	10 Vdc
Accuracy	0.3% F.S. + 0.05°C/°C at the cold junction
Linearity	0.2% F.S.
Thermal drift	250 ppm/°C + 0.1°C/°C at the cold junction
Response time	<250mSec. (0% to 90% signal)
Bandwidth	20Hz (-3dB)

Power

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

Isolation*

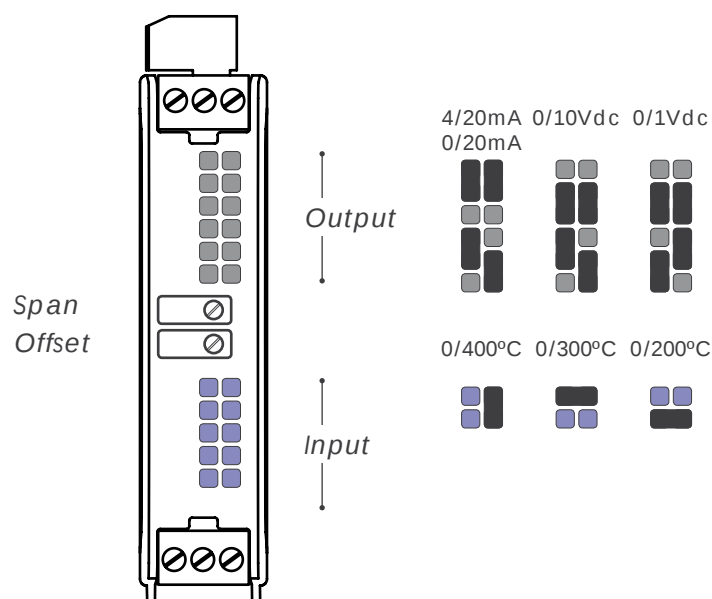
Input-output	3500Veff, optical
Power-input	3500Veff, galvanic
Power-output	3500Veff, galvanic (with AC power) 1000Veff, galvanic (with DC power)

* 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
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