

# SC-ISOCON6



The new SC-ISOCON6 Isolating Signal Converter can accept a wide range of inputs including 4-20mA, thermocouple, RTD and voltage signals. The units produce a high level DC output of either voltage or current.

Full 3 port isolation is standard as is an isolated transmitter supply which can be used to power any standard 2-wire 4-20mA transmitter.

The input type and range can be user selected using simple DIL switches inside the unit. All RTD and Thermocouple inputs can be fully linearised.

Non-interactive zero and span controls make adjustment of the unit quick and

Other features include optional inversion of the input signal, an optional second analogue output (see SC-Dualcon data sheet) and an optional Relay alarm output. The unit accepts a power supply of either 12-36 Vdc or 12-32Vac

For specials such as custom linearisation, frequency input and maths functions etc please contact the sales office.

### **Connection Details**

- 1. Power supply -ve Power supply +ve
- 4. Process Input -ve T/C -ve RTD -ve Process Input +ve T/C +ve RTD +ve
- Trans supply +ve RTD 4th wire
- T/C Shield RTD 3rd wire
- 10. Output -ve
- 12. Output +ve

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### ISO9001 CERTIFIED

cynergy3-sc-isocon6-v2

## 3 Port Isolating Signal Converter

- Universal input/output- user selectable
- mA, Voltage, Thermocouple & RTD inputs
- Dual Output unit available see Dualcon
- Selectable mA or Voltage output
- 12-32Vac or 12-36Vdc Supply
- Isolated Transmitter Supply
- Very High Accuracy, Low Cost
- Only 12.5mm Wide on DIN rail

DC Current & Voltage 0-20mA, 4-20mA, 0-10mA into 15 0-1V, 0-10V, 1-5V into 1M

Min & Max Full Scale Ranges are

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DC Current	0 - 1mA	0 - 5A			
Bipolar DC Current	±5mA	±10mA			
DC Voltage	0 - 1V	0 - 300V*			
Bipolar DC Voltage	±5V	±10V			
2 Wire Pot	0 - 125Ù	0 - 1kÙ			
3 Wire Pot	0 - 1kÙ	0 - 100kÙ			

#### Outputs

### **DC Current and Voltage**

0-20mA, 4-20mA, 0-10mA into 750и 0-1V, 0-10V, 1-5V into a minimum 100kи Others available up to a maximum of: Current: 0-20mA. Voltage: 0-10Vdc

\* Note: For input voltages greater than 60Vdc a Divider unit must be specified.

#### Thermocouples

Types E.J.K,N,R,S,T,B linearised or non-linearised. Ranges: Wide range of inputs. Cold junction compensation (can be turned off). Upscale or downscale t/c burnout options

#### **Resistance Thermometers**

2, 3 or 4 wire PT100 or PT1000, linearised or non-linearised. Ranges: Wide range of inputs. Upscale or downscale RTD burnout options.

For a dual output unit please see the SC-DUALCON data sheet.

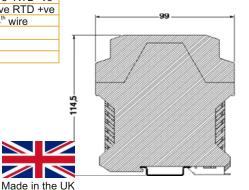
Other input types are Strain gauge or load cell and Frequency, including PWM frequency inputs.

## **Technical Specifications**

Parameter	Min	Тур	Max	Comments
Supply Voltage	12V	24V	36Vdc/32Vac	
Supply Current (mA)		45	85	For 24Vdc supply (260mA for 50ms on start-up)
Volt Drop (mA input)		0.3		At 20mA Input
Input Impedance (Volt)		1Ми	100Ми	Dependant on range (typ=10V)
Input Impedance (mA)		15и		Dependant on range (typ=20mA)
Output Linearity Error		$\pm 0.01\%$	±0.05%	
Temp Coefficient			±50ppm/°C	
Load Resistance Error			±5ррт/и	0 < RL < 750n
Time Constant (10-90%	6) 25mS	60mS		Select fast/normal response
Operating Ambient	0°C		55°C	
Relative Humidity	0%		90%	
Isolation Voltage see note	1kV			
Surge Voltage	2.5kV fo	or 50µS	Transient o	of 10kV/µS
Notes	Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur.			

Device is protected against reverse polarity connection.

Accuracy figures based on 24Vdc supply, 4-20mA output with 250<sub>M</sub> load and an ambient 20℃. SC-ISOCON3 does NOT provide safety isolation when the input is connected to the mains.





**Installation Data** 

Screw Clamp with pressure plate

DIN Rail TS35

Conductor Size 0.5 - 4.0 mmInsulation Stripping 12mm Weight Approx 95g

**Ordering Information** 

Part No.: SC-ISOCON6

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