SC-ISOCON3

3 Port Isolating Signal Converter



The new SC-ISOCON3 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 simple.

Other features include optional inversion of the input signal and optional second analogue output (see SC-Dualcon data sheet).

The unit can accept a wide ranging ac power supply from 90 to 264 Vac. For specials such as custom linearisation, frequency input and maths functions etc please contact the sales office.

Connection Details1. Power supply -ve2. Power supply +ve4. Process Input -ve T/C -ve RTD -ve5. Process Input +ve T/C +ve RTD +ve3. Trans supply +ve RTD 4th wire6. T/C Shield RTD 3rd wire10. Output -ve12. Output +ve

Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE *Telephone +44 (0) 1202 897969 Email:sales@cynergy3.com*

IS09001certified

SC-ISOCON3 2018

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

Inputs

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:

| 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 - 125Ω | 0 - 1kΩ | | | |
| 3 Wire Pot | 0 - 1kΩ | 0 - 100kΩ | | | |

Outputs DC Current and Voltage

0-20mA, 4-20mA, 0-10mA into 750 $\pmb{\Omega}$ 0-1V, 0-10V, 1-5V into a minimum 100k $\pmb{\Omega}$ 0thers 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.

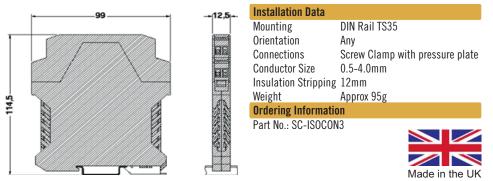
For a dual output unit please see the SC-DUALCON data sheet.

Other input types are Strain gauge or load cell and Frequency, including PWM frequency inputs - see SC-FREQCON

| Technical Specifications | | | | | | |
|----------------------------|---|-------------|--------------|-------------------------------|--|--|
| Parameter | Min | Тур | Max | Comments | | |
| Supply Voltage (Vac) | 90 | | 264 | 50 or 60 Hz | | |
| VA Rating | 1 | .6VA±10% | | 20mA in & out | | |
| Volt Drop (mA input) | | 0.3 | | At 20mA Input | | |
| Input Impedance (Volt) | | 1MΩ | 100Ma | Dependant on range (typ=10V) | | |
| Input Impedance (mA) | | 15 0 | | Dependant on range (typ=20mA) | | |
| Output Linearity Error | | ±0.01% | ±0.05% | | | |
| Temp Coefficient | | | ±50ppm/⁰C | | | |
| Load Resistance Error | | | ±5ppm/Ω | 0 < RL < 750Ω | | |
| Time Constant (10-90% | 5) 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 f | or 50µS | Transient of | of 10kV/µS | | |
| Notes | Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur. | | | | | |

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 Ω load and an ambient 20°C. SC-ISOCON3 does NOT provide safety isolation when the input is connected to the mains.



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