

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SC-ISOCON6

3 Port Isolating Signal Converter





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 |
|--------------------------------------|
| Power supply -ve |
| 2. Power supply +ve |
| 4. Process Input -ve T/C -ve RTD -ve |
| 5. Process Input +ve T/C +ve RTD +ve |
| 3. Trans supply +ve RTD 4th wire |
| 6 T/C Shield RTD 3rd wire |

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10. Output -ve 12. Output +ve

ISO9001certified

SC-ISOCON6 2017

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

Outnuts

DC Current and Voltage

0-20 mA, 4-20 mA, 0-10 mA into 750 Ω 0-1V, 0-10V, 1-5V into a minimum $100k\Omega$ 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) | | $1M\Omega$ | $100M\Omega$ | Dependant on range (typ=10V) |
| Input Impedance (mA) | | 15Ω | | Dependant on range (typ=20mA) |
| Output Linearity Error | | ±0.01% | ±0.05% | |
| Temp Coefficient | | | ±50ppm/°C | |
| Load Resistance Error | | | ± 5 ppm/ Ω | $0 < RL < 750 \Omega$ |
| Time Constant (10-90%) 25mS 60 | | | | 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 | ıf 10kV/μS |
| Notes | Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur. Device is protected against reverse polarity connection. | | | |





Installation Data Mounting DIN Rail TS35 Orientation Connections

Screw Clamp with pressure plate

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

Ordering Information Part No.: SC-ISOCON6

Accuracy figures based on 24Vdc supply, 4-20mA output with 250 Ω load and an ambient 20°C.

