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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-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

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.

ı	Co	onn	ection	Detail	ls

- 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
- 6. T/C Shield RTD 3rd wire
- 10. Output -ve
- 12. Output +ve

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ISO9001certified

SC-ISOCON3 2017

- 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

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			

Outputs

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.

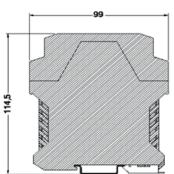
For a dual output unit please see the SC-DUALCON data sheet.

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

Technical Specifications

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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)		$1M\Omega$	$100 M_{\Omega}$	Dependant on range (typ=10V)			
Input Impedance (mA)		15α		Dependant on range (typ=20mA)			
Output Linearity Error		$\pm 0.01\%$	$\pm 0.05\%$				
Temp Coefficient			±50ppm/°C				
Load Resistance Error			± 5 ppm/ Ω	$0 < RL < 750 \Omega$			
Time Constant (10-90%	S) 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 o	of 10kV/µS			
Notes		ū		limits beyond which damage to the device may occur.			
	Device is [protected against	reverse polarity co	imection.			

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.





Installation Data

DIN Rail TS35 Mounting Orientation

Connections Screw Clamp with pressure plate

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

Ordering Information

Part No.: SC-ISOCON3

