SC-DUALCON6

Isolating Signal Converter - 2 Outputs





The SC-DUALCON6 Isolating Signal Converter can accept a wide range of inputs including 4-20mA, thermocouple, RTD and voltage signals. The units produce two high level DC outputs 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, on either one or both of the outputs

The unit operates from any supply from 16 to 36 Vdc or 16 to 32Vac

For specials such as averaging of the input signal, custom linearisation etc please contact the sales office.

- Universal Configurable Input
- 2 Configurable Outputs, full 3-Port isolation
- 16-36Vdc, 18-32Vac supply
- Selectable mA or Voltage output
- Isolated Transmitter Supply
- Very High Accuracy, Low Cost
- Only 17.5mm Wide on DIN rail

Inputs

DC Current & Voltage

0-20mA, 4-20mA, 0-10mA into $15\,\Omega$

0-1V, 0-10V, 1-5V into $1M\Omega$

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 $750\,\Omega$ 0-1V, 0-10V, 1-5V into a minimum $100k\,\Omega$ Others available up to a maximum of: Current: 0-20mA. Voltage: 0-20Vdc

* 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.

Technical Specifications				
Parameter	Min	Тур	Max	Comments
Supply Voltage	16V	24V	36Vdc/32Vac	
Supply Current (mA)		45	120	for 24Vdc supply (260mA for 50ms on start-up
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)		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%	6) 25mS	60mS		Selectable 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			

Device is protected against reverse polarity connection.

Accuracy figures based on 24Vdc supply 2 x 4-20mA outputs with 250.0 load and an ambient 20%

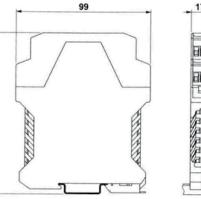
Accuracy figures based on 24Vdc supply, 2×4 -20mA outputs with 250 Ω load and an ambient 20°C. SC-DUALCON6 does NOT provide safety isolation when the input is connected to the mains.

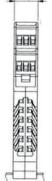
Connection Details			
Power supply -ve			
2. Power supply +ve			
4. Process Input -ve T/C -ve RTD -ve			
5. Process Input +ve T/C +ve RTD +ve			
3. Trans supply +ve RTD 4th wire			
6. T/C Shield RTD 3 rd wire			
10. Output 2 -ve 7. Output 1 -ve			
12. Output 2 +ve 9. Output 1 +ve			

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ISO9001certified

SC-DUALCON6 2018





Installation Data Mounting DIN Rail TS35 Orientation Any Connections Screw Clamp with pressure plate Conductor Size 0.5-4.0mm Insulation Stripping 12mm Weight Approx 115g Ordering Information Part No.: SC-DUALCON6



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