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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-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

DC/AC Current & Voltage

0-20mA, 4-20mA, 0-10mA into 15 Ω

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

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: 0-20Vdc

* 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	f 10kV/μS	
Notes			s indicate sustained st reverse polarity co	limits beyond which damage to the device may occur. nnection.	

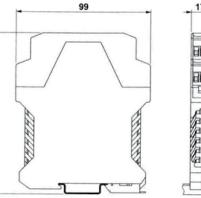
Accuracy figures based on 24Vdc supply, 2 x 4-20mA outputs with 250 Ω load and an ambient 20°C. SC-DUALCON6 does NOT provide safety isolation when the input is connected to the mains.

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 4 th 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 2017





	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		
	DN6		

