

STORK DUALCON-3

Model: SDC3

Isolating Signal Converter

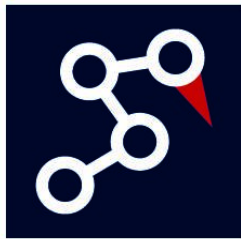


Description:

The DUALCON 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 is supplied with two power supply options, either wide ranging ac or dc. The ac version operates from any supply from 90 to 264 Vac and the dc version operates from 12 to 36 Vdc.

Product Highlights:

- Universal configurable input
- 2 Configurable Outputs
- Full 3-Port Isolation
- Wide range AC or DC Supply
- Isolated Transmitter Supply
- Very High Accuracy, Low Cost
- Only 17.5mm Wide on DIN rail

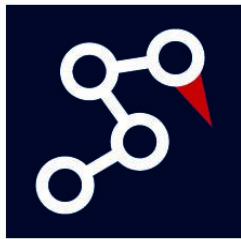


Specification:

Stork Dualcon-3				
Parameter	Min	Typ	Max	Comments
Supply Voltage	16Vdc/18Vac	24V	36Vdc/32Vac	90 to 264 for ac input version
Supply Current (mA)		95	120	For 24 V dc supply (280mA for 75ms on startup)
Input Impedance (Volt)		1M Ω		Dependent on range (Typ=10V)
Input Impedance (mA)		15 Ω		Dependent on range (Typ=20mA)
Volt drop (mA input)		0.3		At 20mA input
Output Linearity Error		$\pm 0.01\%$	$\pm 0.05\%$	
Temp Coefficient			$\pm 50\text{ppm}/^\circ\text{C}$	
Time Constant (10-90%)	25ms (fast)	60ms (normal)		Selectable fast/normal response
Operating Ambient	0 $^\circ\text{C}$		55 $^\circ\text{C}$	
Relative Humidity	0%		90%	
Isolation Voltage	1kV			
Surge Voltage	2.5kV for 50 μs		Transient of 10kV/ μs	

*notes - Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur. Accuracy figures based on 24Vdc supply, 4-20mA output with 250 Ω load and 20 $^\circ\text{C}$ ambient. Device is protected against reverse polarity connection. 1/ DUALCON does NOT provide safety isolation when the input is connected to the mains

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



STORK SOLUTIONS

Ordering Information	
Please Supply:	
Part Number	SDC6
Input Type	e.g mA, Volt, T/C, RTD
Input Range	e.g 4-20, 0-10, 0-500 C
Output Type 1	e.g 4-20mA, 0-10V
Output Type 2	e.g 4-20mA, 0-10V
Power Supply	-6 (DC) or -3 (AC)
Isolation	Full 3-Port