

STORK ISOCON-3

Model: SIC3

Signal Isolator

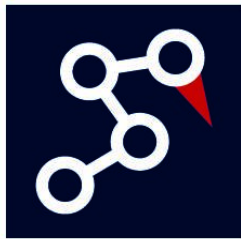


Description:

The new ISOCON 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 simple. Other features include optional inversion of the input signal, an optional second analogue output (see Dualcon data sheet) and an optional Relay alarm output. 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 input/output- user selectable
- mA, Voltage, Thermocouple & RTD inputs
- Dual Output unit available see Dualcon
- Selectable mA or Voltage output
- Wide range AC or DC Supply
- Isolated Transmitter Supply
- Very High Accuracy, Low Cost
- Only 12.5mm Wide on DIN rail

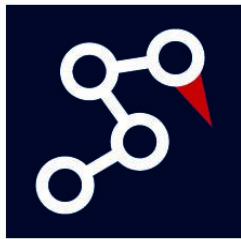


Specification:

Stork Isocon-3				
Parameter	Min	Typ	Max	Comments
Supply Voltage	12	24V	36Vdc/32Vac	90 to 264 for ac input version
Supply Current (mA)		45	85	For 24 V dc supply (260mA for 50ms on startup)
Input Impedance (Volt)		1M Ω	100 M 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			$\pm 50\text{ppm}/^{\circ}\text{C}$	
Load Resistance Error			$\pm 5\text{ppm}/\Omega$	$0 < R_L < 750\Omega$
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. ISOCON 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. 95g



STORK SOLUTIONS

Ordering Information	
Please Supply:	
Part Number	SIC3
Input Type	e.g mA, Volt, T/C, RTD
Input Range	e.g 4-20, 0-10, 0-500°C
Output Type	e.g mA, Volt
Output Range	e.g 4-20mA, 0-10V
Power Supply	-6 (DC) or -3 (AC)
Isolation	Full 3-Port