# SC-ISOSLICE-4

## ISOLATED BUS I/O MODULE -



For Output Modules see SC-ISOSLICE-6 or



The SC-ISOSLICE-4 isolated Bus I/O module combines full three-port isolation with access to an industrial bus. This bus connects to the SC-E-100 modules which are then used to transmit the process values via either an Ethernet or a RS232/485 wired communications

Full 3-port isolation is standard but for channel to channel isolation please see the SC-ISOSLICE-1

The input range and thermocouple type can be user selected using simple DIL switches inside the unit and the unit is factory calibrated for eight different thermocouple types and four different input ranges per thermocouple.

Non-interactive zero and span controls make adjustment and calibration of the unit quick and simple.

The units have a wide ranging 12 to 36 Vdc. This supply can either be wired to the appropriate terminals or picked up automatically from the Bus connector.

## **Installation Data**

network

Mounting DIN Rail TS35 Orientation Anv Connections Screw Clamp with pressure plate Conductor Size 0.5 - 4.0 mm**Insulation Stripping** Approx 95g Weight

**Ordering Information** Part No.: SC-ISOSLICE-4

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## ISO9001certified

SC-ISOSLICE-4 2017

# 4 off Thermocouple Inputs

Communicates to Ethernet / Rs232 or RS485 network via an SC-E-100 unit

**Outputs** 

- Inter-channel & Input/Output Isolation
- Automatic Bus & Power Connection Via DIN Rail Bus Connector
- Multiple inputs in one module
- Very High Accuracy, Low Cost

### Input Types for SC-ISOSLICE-4

#### Thermocouple Inputs x 4

Thermocouple Types: E J K N R S T B

SC-ISOSLICE-8 Ranges: Large number of input ranges, can be user calibrated.

Cold Junction Compensation (can be turned off)

Full thermocouple linearization

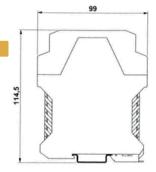
Upscale or Downscale t/c burnout options For Channel to Channel Isolation see Isoslice-1

В	400 °C	1800 ℃
E	0 ℃	1000 ℃
J	0 ℃	1200 ℃
K	0 ℃	1350 ℃
N	0 ℃	1300 ℃
R	0 ℃	1400 ℃
S	0 ℃	1400 °C
Т	-200 °C	400 ℃

#### **Technical Specifications Parameter** Min Max Comments Typ Supply Voltage 12V 24V 36Vdc Supply Current (mA) 45 90 For 24Vdc supply (260mA for 50ms on start-up) **Bus Connection** 16-bit bus connection Volt Drop (mA input) 0.3 At 20mA Input Input Impedance (Volt) $1M\Omega$ 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 $\pm 5$ ppm/ $\Omega$ 0 < RL < 750 $\Omega$ Load Resistance Frror Time Constant (10-90%) 60mS (normal) **Operating Ambient** 0°C 55°C **Relative Humidity** 0% 90% Isolation Voltage see note 1kV Surge Voltage 2.5kV for 50uS Transient 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.

Accuracy figures based on 24Vdc supply, 4-20mA output with 250  $\Omega$  load and an ambient 20°C.



	Part Number	Universal Inputs	mA or V Inputs	RTD Inputs	T/C Inputs	Analogue Outputs	Digital Inputs	Digital Outputs
	SC-ISOSLICE-1	2						
	SC-ISOSLICE-2		8					
	SC-ISOSLICE-3			4				
	SC-ISOSLICE-4				4			
	SC-ISOSLICE-5						8	
ı	SC-ISOSLICE-6							4
ı	SC-ISOSLICE-7						2 x freq in	
ı	SC-ISOSLICE-8					4		
ı	SC-ISOSLICE-9	4 x AC I/V						

