

# SC-ISOSLICE-8

## ISOLATED BUS I/O MODULE



- 4 off Analogue Outputs
- Communicates to Ethernet / RS232 or RS485 network via an SC-E-100 unit
- Automatic Bus & Power Connection Via DIN Rail Bus Connector
- Multiple inputs in one module
- Very High Accuracy, Low Cost

### Output Types for SC-ISOSLICE-8

#### Analogue Outputs x 4

Each analogue output can be set to either 4-20mA or 0-10Vdc. Other options are available, please enquire.

Field calibration or adjustment can be achieved using the front panel pushbuttons and multi-coloured LED.

The 4-20mA outputs are current source into a maximum 750Ω load impedance.

When 0-10V outputs are used, the minimum load impedance is 100kΩ

The SC-ISOSLICE-8 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 network.

Full 3-port isolation is standard.

The analogue output type can be selected using the internal DIP switches between either 4-20mA or 0-10V.

The unit is factory calibrated for 4-20mA or 0-10V but user calibration or adjustment can be done in use using the front panel pushbuttons and LED.

Each output is controlled via Modbus commands to the SC-E-100 coordinator or can be linked to an analogue input channel from an input SC-ISOSLICE.

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.

### Technical Specifications

Parameter	Min	Typ	Max	Comments
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
Load Impedance (mA)			750Ω	Dependant on range (max=20mA)
Output Linearity Error		±0.01%	±0.05%	
Temp Coefficient			±50ppm/°C	
Load Resistance Error			±5ppm/Ω	0 < RL < 750Ω
Time Constant (10-90%)	60mS (normal)			
Operating Ambient	0°C		55°C	
Relative Humidity	0%		90%	
Isolation Voltage <sup>see note</sup>	1kV			
Surge Voltage	2.5kV for 50μS		Transient of 10kV/μS	

### Notes

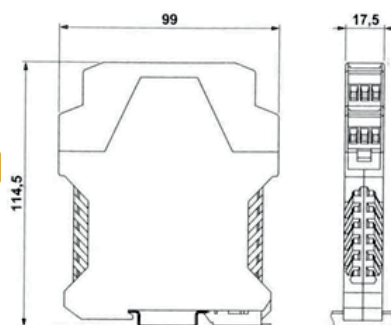
Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur. Device is protected against reverse polarity connection. Accuracy figures based on 24Vdc supply, 4-20mA output with 250Ω load and an ambient 20°C.

### 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

### Ordering Information

Part No.: SC-ISOSLICE-8



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	
SC-ISOSLICE-6							4
SC-ISOSLICE-7						2 x freq in	
SC-ISOSLICE-8					4		
SC-ISOSLICE-9	4 x AC I/V						

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ISO9001 CERTIFIED

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