

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 ^{see note}	1kV			
Surge Voltage	2.5kV for 50μS		Transient of 10kV/μS	

Notes

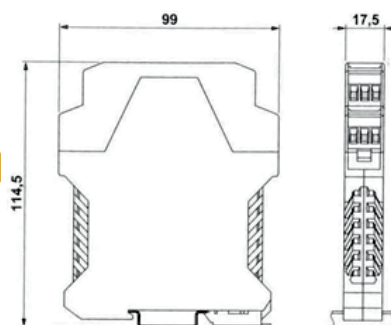
Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur. Device is protected against reverse polarity connection. Accuracy figures based on 24Vdc supply, 4-20mA output with 250Ω load and an ambient 20°C.

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

SC-ISOSLICE-8 2017



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