

# SC-ISOSLICE-7

## ISOLATED BUS I/O MODULE



- 2 off Frequency Inputs or 1 off Pulse Counting Input
- Communicates to Ethernet / RS232 or RS485 network via an SC-E-100 unit
- Input/Output/Power Supply 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-7

Frequency Inputs x 2 or  
Pulse Counting Input x 1

### Outputs

For Output Modules see SC-ISOSLICE-6 or  
SC-ISOSLICE-8

The type of digital input can be selected using internal DIP switches.

Typical inputs are volt free contacts or 0-24 Volt

The standard maximum frequency is 10kHz per channel but higher frequencies may be available, please enquire.

The SC-ISOSLICE-7 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 but for channel to channel isolation please see the SC-ISOSLICE-1.

The frequency or pulse counting input type can be switched using internal DIP switches for either volt-free contact inputs or voltage level inputs. The two frequency input values or one pulse counting total can be read from internal modbus registers.

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
Temp Coefficient			±50ppm/°C	
Time Constant (10-90%)		60mS (normal)		200mS for reading update
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.

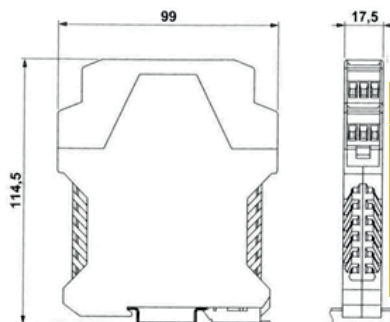
Accuracy figures based on 24Vdc supply, 4-20mA output with 250Ω load and an ambient 20°C.

### 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-7



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 ACI/V						

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