# SC-E-100 Series Analogue I/O to Comms Gateway



The SC-E-100 Ethernet Gateway module provides a straight forward method of interfacing analogue and digital process parameters to an Ethernet or RS232/485 network. The SC-E-100 allows the user to view the status of the individual inputs via the front panel display.

The SC-E-100 unit can have one or two analogue inputs but the system can be expanded through the use of the optional SC-ISOSLICE slice I/O modules.

These modules connect automatically via the DIN rail mounted bus connector, allowing the easy addition and removal of extra I/O.

A built-in display allows local monitoring of the individual inputs and outputs, a useful commissioning and operations tool. Additionally the Ethernet version has a built-in web page which can be used to display live data using any standard web browser.

Using the SC-E-100 is a simple way to implement an Ethernet measurement and control system or it can be used to add additional inputs and outputs to an existing Ethernet or RS232/485 installation.

#### **Connection Details** Power Input -ve 1. Power Input +ve 2 Tx supply +ve RTD 4<sup>th</sup> wire RTD 3<sup>rd</sup> wire 3 6. 5. Input mA +ve, T/C +ve, RTD +ve 4. Input mA -ve, T/C -ve, RTD -ve 114,5 Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE Telephone +44 (0) 1202 897969 Email:sales@cynergy3.com

#### IS09001certified

SC-E-100 2017

- Cynergy
- MODBUS TCP or RTU Protocol
- Ethernet or RS232/485 Comms Port
- Universal Configurable Analogue Input
- IsoSlice I/O system for additional I/O
- Built in web-page for live monitoring of data

### **DC Current & Voltage**

Innuts

0-20mA, 4-20mA, 0-10mA into 15/30 Ω

0-1V, 0-10V, 1-5V into 100kn / 1Mn

0-25mV, 0-10mV, 0-500mV into >100MΩ

Min & Max Full Scale Ranges are:

DC Current	0 - 1mA	0 - 5A
Bipolar DC Current	±5mA	±10mA
DC Voltage	0 - 25mV	0 - 300V*
Bipolar DC Voltage	±5V	±10V
2 Wire Pot	0 - 125Ω	0 - 1kΩ
3 Wire Pot	0 - 1kΩ	0 - 100kΩ

\* Note: For input voltages greater than 60Vdc a Divider unit must be specified.

#### Thermocouples

Types E,J,K,N,R,S,T,B linearised or non-linearised. Ranges: Wide range of inputs. Cold junction compensation (can be turned off). Upscale or downscale t/c burnout options

### **Resistance Thermometers**

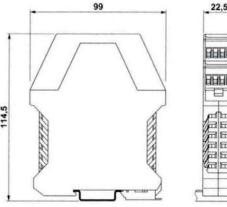
2, 3 or 4 wire PT100 or PT1000, linearised or non-linearised. Ranges: Wide range of inputs.

Upscale or downscale RTD burnout options. Additional I/O

Extra analogue and digital inputs and outputs are available through the SC-ISOSLICE I/O modules.

Technical Specifications						
Parameter	Min	Тур	Max	Comments		
Supply Voltage	16V	24V	30V			
Supply Current (mA)	65		120	24Vdc supply		
Volt Drop (mA input)		0.3		At 20mA Input		
Input Impedance (Volt)		1MΩ				
Input Impedance (mA)		15Ω				
Output Linearity Error		±0.01%	±0.05%			
Temp Coefficient			±100ppm/°C			
Operating Ambient	0°C		55°C			
Relative Humidity	0%		90%			
Isolation Voltage see note	1kV					
Surge Voltage	2.5kV for 50µS		SL	Transient of 10kV/µS		
Notes	The process input level is shown on thew 4 digit LED display					

The process input level is shown on thew 4 digit LED display Figures based on 24Vdc supply an ambient temperature of 20°C.



22,5		
	Installation Data	
	Mounting	DIN Rail Ts35
8888	Orientation	Any
	Connections	Screw Clamp with pressure plate
8888	Conductor Size	0.5-4.0mm
	Insulation Stripping	12mm
and the	Weight	Approx 120g
	<b>Ordering Information</b>	n
	Part No.s:	Comms
	SC-E-100-RS232	RS232
	SC-E-100-RS485	RS485
	SC-E-100-E	Ethernet
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Made in the UK www.cynergy3.com

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## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Sensata:

<u>SC-E-100-E</u> <u>SC-E-100-RS232</u> <u>SC-E-100-RS485</u>