SC-E-100 Series

Analogue I/O to Comms Gateway





Ethernet or RS232/485 Comms Port

MODBUS TCP or RTU Protocol

Universal Configurable Analogue Input

IsoSlice I/O system for additional I/O

Built in web-page for live monitoring of data

DC Current & Voltage

0-20mA, 4-20mA, 0-10mA into 15/30Ω

0-1V, 0-10V, 1-5V into $100k\Omega$ / $1M\Omega$

0-25 mV, 0-10 mV, 0-500 mV into >100 M Ω

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	WIIN	ıyp	IVIAX	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)		$1 M_{\Omega}$		
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 50	μS	Transient of 10kV/μS
Notes	The process input level is shown on thew 4 digit LED display Figures based on 24Vdc supply an ambient temperature of 20°C.			

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.

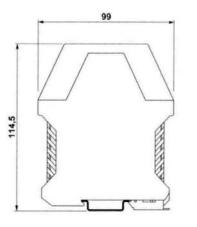
Using the SC-E-100 is a simple way to implement an Ethernet measurement and control system or it can be used to add additional inputs and outputs to an existing Ethernet or RS232/485 installation.

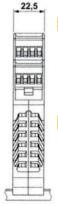
Co	onnection Details
1.	Power Input -ve
	Power Input +ve
	Tx supply +ve RTD 4th wire
6.	RTD 3 rd wire
5.	Input mA +ve, T/C +ve, RTD +ve
4.	Input mA -ve, T/C -ve, RTD -ve

Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE Telephone +44 (0) 1202 897969 Email:sales@cynergy3.com

ISO9001certified

SC-E-100 2017





Installation Data	
Mounting	DIN Rail Ts35
Orientation	Any
Connections	Screw Clamp with pressure plate

Conductor Size 0.5 - 4.0 mmInsulation Stripping 12mm Weight Approx 120g

Ordering Information

•	
Part No.s:	Comms
SC-E-100-RS232	RS232
SC-E-100-RS485	RS485
SC-E-100-E	Ethernet

