

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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.

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

Inputs

DC Current & Voltage

0-20 mA, 4-20 mA, 0-10 mA into 15/30 Ω

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:

	U	
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

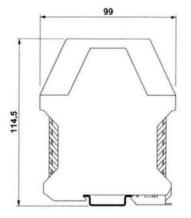
Parameter	Min	Тур	Max	Comments
Supply Voltage	16V	24V	30V	
Supply Current (mA)	65		120	24Vdc supply
Volt Drop (mA input)		0.3		At 20mA Input
Input Impedance (Volt)		$1M\Omega$		
Input Impedance (mA)		15α		
Output Linearity Error		$\pm 0.01\%$	±0.05%	
Temp Coefficient			±100ppm/°C	
Operating Ambient	0°C		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.			

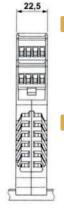
Connection Details
Power Input -ve
2. Power Input +ve
3. Tx supply +ve RTD 4th wire
6. RTD 3 rd wire
5. Input mA +ve, T/C +ve, RTD +ve
4. Input mA -ve, T/C -ve, RTD -ve

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ISO9001certified

SC-E-100 2017





DIN Rail Ts35
Any
Screw Clamp

Connections Screw Clamp with pressure plate 0.5-4.0mm

Insulation Stripping 12mm
Weight Approx 120g
Ordering Information

Part No.s: Comms SC-E-100-RS232 RS232

SC-E-100-RS232 RS232 SC-E-100-RS485 RS485 SC-E-100-E Ethernet

