

SI 1000 series

Panel mount display controllers



actual size

With a Display/Controller to match the output from Solartron Metrology's extensive range of Displacement and Gauging transducers, there is now a simple to use and cost effective single channel solution to a wide range of laboratory and industrial linear position monitoring and control applications.

The versatile **SI 1100** provides up to 0.1μ resolution when used with Solartron's LVDT Displacement and Gauging transducers. A choice of VDC, 4-20 mA, outputs and relays make it easy to communicate with PLC's. RS232 and RS485 serial ports are also standard.

Where long cable runs are required, the **SI 1300** is an obvious choice. Two wire loop powered 4-20 mA connection to Solartron's S and SR Series of rugged Displacement Transducers completes a simple to install system with an impressive performance. DC/DC operation is also standard for use with the DC versions of the S and SR series.

The **SI 1500** is a cost effective yet versatile panel mount display for use with Solartron's high performance Orbit® based Digital Probes, Linear Encoders and Modules.

- Red 7 digit display
- LVDT input (SI1100)
- DC or 4-20 mA inputs (SI 1300)
- Solartron Orbit input (SI 1500)
- RS232 or RS485 Serial outputs
- VDC or 4-20 mA outputs
- Low, OK, High lamps and relays
- Peak Hold

SI 1000 series

Specification



Dimensions	SI 1100 LVDT	SI 1300 4-20 mA/Voltage	SI 1500 Digital Probe
Case size (incl. bezel)	H = 48mm x W = 96 x D = 137mm		
Panel cut out	H = 44.5mm x W 93mm		
Depth behind panel (inc. terminals)	135mm		
Display			
Display Type	7 digit red led		
Display Update Rate	Up to 10 readings/second		
Indicators	Low, OK and High warning lamps		
Range	-99.9999 to +99.9999		
Resolution	1mm to 0.1um (user selectable)		
Inputs			
Transducer Types	LVDT AX analogue probes S Series & Miniature LVDT displacement sensors	4-20 mA or 0-10 VDC	Digital probes Orbit modules
Bandwidth/response time /sensor reading rate	Up to 100 readings/second		
Discrete Inputs	Zero, Peak(+Peak/-Peak/Difference), Hold		
Outputs			
Analogue	4-20 mA, -5V to +5V, -10V to +10V, 0V to +5V, 0V to +10V (selectable)		
Discrete	Alarm Relay - Open Collector Low, OK and High Relay Response Time = 0.1-9.9 seconds (selectable)		
Communications			
Serial Port	RS232 or RS485 Configurable		
Power			
Voltage	+24 VDC		
Current	850 mA Max		
Environmental			
Operating Temperature	10°C to 40°C		
Storage Temperature	-10°C to 70°C		
Electrical Immunity	EN6100-6-2:2007		
Electrical Emissions	EN61000-6-3:2007		
Front Panel Sealing	IP65		

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Solartron pursues a policy of continuous development. Specifications in this document may therefore be changed without notice.

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