

SI1000 Series

Panel mount display controllers

Description

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 SI100 provides up to 0.1 μm 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 SI1300 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 SI1500 is a cost effective yet versatile panel mount display for use with Solartron's high performance Orbit[®] 3 based digital probes, linear encoders and modules.

Features

- Red 7 digit display
- LVDT input (SI1100)
- DC or 4-20 mA inputs (SI1300)
- Solartron Orbit[®]3 input (SI1500)
- RS232 or RS485 serial outputs
- VDC or 4-20 mA outputs
- Low, OK, high lamps and relays
- Peak hold



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Technical specification

	SI1100 LVDT	SI1300 4-20 mA/Voltage	SI1500 Digital Probe
Dimensions			
Case size (inc. bezel)	H = 48 mm x W = 96 x D = 137 mm		
Panel cut out	H = 44.5 mm x W 93 mm		
Depth behind panel (inc. terminals)	135 mm		
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	1 mm to 0.1 µm (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® 3 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 °C	10 to 40		
Storage temperature °C	-10 to 70		
Electrical immunity	EN6100-6-2:2007		
Electrical emissions	EN61000-6-3:2007		
Front panel sealing	IP65		

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Q09540

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

Datasheet 52624
Issue 61
EDCR20423

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