SI 1000 series

Panel mount display / controllers

SI 3000 series

Twin axis display / controllers

▶ Red 7 digit display
▶ RS232 or RS485 Serial outputs
▶ VDC or 4-20 mA outputs
▶ Low, OK, High lamps and relays
▶ Peak Hold

The Si 1000 series is a simple to use, 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 sensors. 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 Sensors completes a simple to install system with impressive performance. DC/DC operation is also standard for use with DC versions of the S and SR series.

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

Dimensions	
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)
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:
Front Panel Sealing	IP65

▶ Intuitive menu
▶ 2 channel 7 digit colour displays
▶ 2 channel analogue colour displays
▶ Auto colour change for in/out range
▶ Auto course/fine resolution
▶ Peak hold facility
▶ Data logging facility
▶ RS232 output
▶ Discrete I/O
▶ 4-20mA or DC output

Specifically designed for use with Solartron's high performance Orbit® network, the SI 3500 features an intuitive, menu driven-twin axis display which can be programmed to display readings, set Limits/Alarms, Peak Hold, Track, or act as a Data Logger for inputs from one or two sensors.

LCD Display	
Digital	2 x colour
Analogue	2 x colour horizontal bars
Update speed	40Hz
Display length (mm)	± xx.xxxxx (user selectable)
Display length (ins)	± x.xxxxxx (user selectable)
Resolution mm	Down to 0.05μm (user selectable)
Resolution ins	Down to 0.000005" (user selectable)
Keypad	
Membrane type with 9 keys	Print, Zero, Up, Down, Left, Right, Enter, Peak Hold/Track, Menu
Measurement type	A, B, A+B, A-B, (A+B/2), (A-B/2), (B-A/a) X und Y
Data Logging	A, B, A+B, A-B, (A+B/2), (A-B/2), (B-A/a) X and Y 10,000 readings via switch or 1ms to 24hr time interval
Indications	mm/inch, Lower & Upper Limits, Out of Range, Measurement Mode
Power requirement	+24 VDC ± 10%
External I/O	
Serial	RS232 serial port (for printer or PC)
Discrete Output	2 x 3 isolated
Analogue Output	2 channels DC or 4-20mA
Environmental	
Front Panel	IP65
Case	IP51
Rear connection	IP51
EMC	Immunity: EN6100-6-2:2001 Emissions: EN61000-6-3:20011
Storage Temperature (°C)	-20 to +50
Operating Temperature (°C)	0 to +50
Mechanical	
Mounting	Bench top or panel mount
Dimensions WxHxD (mm)	Without bezel 134 x 65x160 With bezel 144 x 74 x 175