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# SI3300

**AMETEK**  
ULTRA PRECISION TECHNOLOGIES

## New Instrument / Controller for use with 4-20mA and DC Transducers

Datasheet  
502834  
Issue 2  
EDCR 18684



### Features

- 2 x 4-20mA or DC inputs
- Simple Menu System
- Dual channel Display
- 7 digit Colour Display (user selectable)
- Auto display colour change for in/out range
- Peak hold facility
- Discrete I/O for each transducer input
- 4-20ma or DC output
- RS232 output
- Front panel IP 65 protection

### Description

The New SI3300 Controller is an instrument designed to maximise the performance of Solartron Metrology's extensive range of DC and 4-20mA Displacement Transducers, as well as other transducers, such as pressure or force.

Powered from a 24Vdc source, the SI3300 can be used to display one or two transducer readings, computed results from two transducers such as, A, B, A+B, A-B, (A+B/2), (A-B/2), and computations with constants, e.g. angle measurements. It can also display X&Y individually if required.

Full set up is made via the IP65 protected front keypad that can, if required, be password protected. The SI 3300 also features discrete inputs/outputs and a selection of Analogue outputs in the form of 4-20mA or Dc voltage.

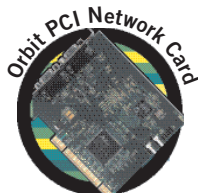
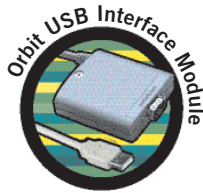
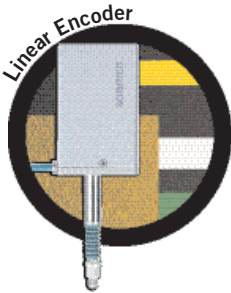
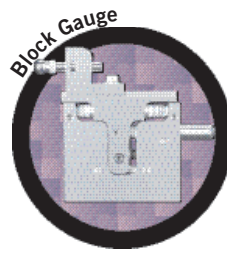
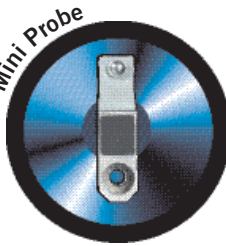
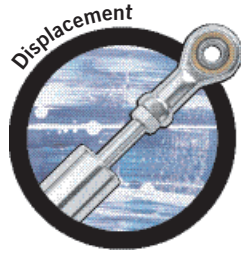
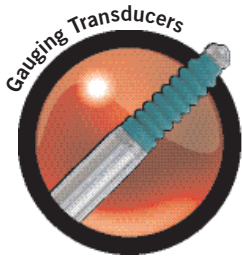


## Technical Specification

<b>Product type</b>	<b>SI3300 - 2 Channel 4-20mA or DC</b>
Display type	Colour LCD display 40Hz update rate with 30° Viewing Angle
Display length (mm) Display length (inches)	XX.XXXXX X.XXXXXX
Resolution (µm)	Down to 0.05 µm or 0.000005"
Analogue Display	1 off Solid vertical bar <b>OR</b> 2 off Solid horizontal bars
<b>Inputs</b>	
Signal input (4-20ma)	2 wire loop powered 4-20mA (loop excitation 15v nominal)
Signal Input VDC	0-5V, 0-10V, +/-5V, +/-10V
Number of transducers	1 or 2 DC OR 1 or 2 4-20mA
Keypad	Membrane Keypad with 9 keys: Print, Zero, Up, Down Left, Right, Enter, Peak hold/Track, Menu.
<b>External input/output</b>	
Serial	RS232 serial port (for printer or PC).
Discrete Output	Six isolated discrete outputs (Channel A, Lo, OK, HI), (Channel B, Lo, OK, HI)
Analogue Output	2 Channels either configured 4-20mA or DC Voltage
<b>Measurement configurations</b>	
Data Logging	Store 10,000 readings by: external switch contact or preset time interval; 1ms to 24hrs, displays Mean and Standard Deviation
Measurement type	A, B, A+B, A-B, (A+B)/2, (A-B)/2, (B-A/a) X & Y
Indications	Measurement Mode, Type of measurement, Lower and Upper Limits, Measurement out of Limits
<b>Electrical</b>	
Power supply (VDC)	+24 VDC +/- 10% @ 0.5A
<b>Mechanical and Enviromental</b>	
Mounting	Bench Top or Panel mount options
Sealing	Front Panel IP65, Case IP51, Rear Connectors IP51
Mass	1.1kg
Temperature	Operating temperature from 0°C to +50°C storage between -20°C to +85°C
EMC	Immunity:EN6100-6-2:2001, Emissions: EN61000-6-3:2001
Dimensions	W x H x D(mm): 134 x 65 x 160 excluding bezel W x H x D(mm): 144 x 74 x 175 including bezel

Part Number	
Base Unit	911361
Unit with Setup	911382

Also Available at Solartron Metrology



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