

NEW

world leaders in the art of linear measurement



Datasheet
502785
Issue 2
EDCR 18235

SI3500

New Orbit instrument for interfacing to Solartron Metrology Transducers



Features

- 2 Orbit® Digital inputs
- Colour display with 0.05 micron resolution
- Simple Menu system
- IP51 Protection (front panel IP65)
- Discrete I/O
- 4-20mA or DC voltage Output

Description

The New SI3500 Orbit Controller is an instrument specifically designed to operate with Solartron's gauging transducers operating on the 'Orbit' network, this plug and play instrument features an intuitive, menu-driven colour display which can be programmed to set limits and to record other parameters intuitively.

Powered from a 24 Vdc source, the SI3500 can be used to display a single transducer reading, computed results from two transducers such as A, B, A+B, A-B, (A+B)/2, (A-B)/2, and computations with constants, for example angle measurements.

Full set up is made via the IP65 protected front keypad that can, if required, be password protected. The SI3500 also features discrete inputs/ outputs and a selection of analogue outputs in the form of 4-20mA or DC voltage.



Technical Specification

Product type	SI3500 - Orbit Digital
Display type	Colour LCD display 40Hz update rate with 30°
Display length (mm)	±ABCD.CDEFG
Display length (inches)	±ABCD.CDEFGH
Resolution (µm)	Down to 0.05 µm or 0.000005"
Analogue Display	Solid bar vertical extending up from, or down from the zero indicator

Inputs

Signal Input	Orbit (2 inputs)
Number or Orbit modules supported	Two directly plugged into the SI3500
Keypad	Membrane keypad with 9 keys: Print, Zero, Up, Down, Left, Right, Enter, peak/track, menu.

External input/output

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

Measurement configurations

Number of probes	Individual probe, Probe pair
Measurement type	A, B, A+B, A-B, (A+B)/2, (A-B)/2
Indications	Measurement Mode, Type of measurement, Lower and Upper Limited, DP Out of Range, measurement out of Limits

Electrical

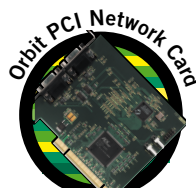
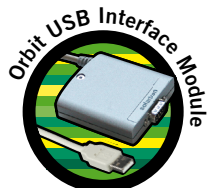
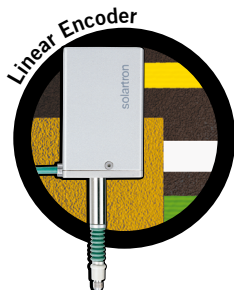
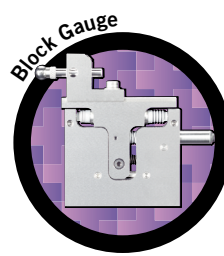
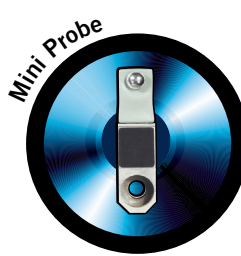
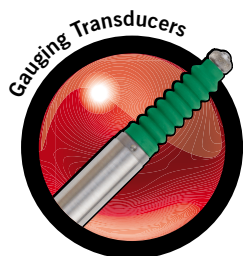
Power supply (VDC)	+24 VDC ± 10%
--------------------	---------------

Mechanical and Enviromental

Mounting	Bench Top or Panel 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	911359

Also Available at Solartron Metrology



Solartron Metrology Offices

Addresses for Offices worldwide

United Kingdom - Head Office

Solartron Metrology
Steyning Way
Bognor Regis
West Sussex
PO22 9ST

Tel: +44 (0) 1243 833333
Fax: +44 (0) 1243 833332
sales.solartronmetrology@ametek.com

Germany

Ametek GmbH
Solartron Metrology Division
Rudolf-Diesel-Strasse 16
40670 Meerbusch

Tel: +49 (0) 2159 9136 500
Fax: +49 (0) 2159 9136 505
vertrieb.solartronmetrology@ametek.com

France

Solartron Metrology
Rond-point de l'Epine des Champs
Buroplus - Bat D
Elancourt, 78990

Tel: +33 (0)1 30 68 89 50
Fax: +33 (0)1 30 68 89 59
france.solartronmetrology@ametek.com

China - Shanghai

Solartron Metrology
Rm 912, Metro Tower
No 30 Tian Yao Qiao Road, Shanghai
200030

Tel: +86 21 6426 8111
Fax: +86 21 6426 7818
china.solartronmetrology@ametek.com

China - Beijing

Solartron Metrology
Room 2202, CITIC Building
#19, Jianguomenwai Dajie
Beijing
100004 P.R China

Tel: +86 10 8526 2111
Fax: +86 10 8526 2141
china.solartronmetrology@ametek.com

China - Chengdu

Solartron Metrology
AMETEK ChengDu Rep Office
Room 2408, Zongfu Building
35 Zongfu Road
Chengdu, Sichun, 610016, China

Tel: +86 28 8675 8111
Fax: +86 28 8675 8141
china.solartronmetrology@ametek.com

Japan

Solartron Metrology
4-5-37 Kamiosaki
Shinagawa-Ku
Tokyo
141-0021

Tel: +81(0) 3 3494 5131
Fax: +81 (0) 3 3494 5134
japan.solartronmetrology@ametek.com

U.S.A

Solartron Metrology
915 N.New Hope Road
Suite C, Gastonia
NC 28054, USA

Tel: +1 800 873 5838
Fax: +1 704 868 8466
usasales.solartronmetrology@ametek.com