## Solartron Metrology - Line card <br> Key Linear Measurement sensors for Electronics

Accuracy - Calibrated Instruments that give you the correct measurement time after time Simplicity - With the Orbit ${ }^{\circledR} 3$ Network or Orbit ${ }^{\circledR}$ ACS, connection to PLC's or a network is simple No Scratch - Contact probes with very low tip forces and non-contact sensors for no marring of surfaces


## Non-contact

Orbit ${ }^{\circledR}$ LTH
$\cdot 2,10,20$ and 100 mm ranges

- Up to +/- 0.02\% Linearity, 0.0076 micron resolution


## Orbit ${ }^{\text {E }}$ LT

- 15 and 50 mm range
- +/- 0.1\% Linearity, 1 micron resolution


Feather/Ultra Feather Touch


- Lighter tip forces for glass, electronics, and other delicate surfaces
- Feather Touch: As low as 0.3 N of tip force; Can withstand side load
- Ultra Feather Touch: 0.03 to 0.05 N of tip force; Alternative to non-contact sensors


Ultra Feather Touch checking small area on HDD

## LVDT (Analogue and Digital)

- Spring push, pneumatic, jet or vacuum retract
- 8 and 6 mm diameter bodies
- Extremely rugged (IP65), tested to 13 million cycles, linearity of 0.05\% Measuring ranges from 0.5 to 20 mm


Ultra Feather Touch checking mobile phone glass


Flexures checking perimeter of HDD

## Compact

Small (<25 mm length) and robust

- High resolution (as low as $0.01 \mu \mathrm{~m}$ ); High repeatability (as low as $0.15 \mu \mathrm{~m}$ ); High accuracy (up to $+/-0.05 \%$ of reading, Digital) Measuring ranges from 0.5 to 2 mm



## Flexures

- Ideal for harsher and awkward gauging applications
- Tested to 20 million cycles; High resolution repeatability and accuracy

Range of sizes
Measuring ranges from 0.5 to 2 mm


Checking the components of a Hard Disk Drive


Checking Height of Semi Conductor Wafers


Orbit ${ }^{\circledR}$ ACS (Automation Control System)

- Stand alone Orbit ${ }^{\oplus}$ systems or built for PLC interface
- 1-4 channels, with Modbus, RS485, RS232, I/O
- For use with both Orbit ${ }^{\oplus} 3$ probes and non-contact lasers


Signal Conditioning


DIN Rail Conditioner - DC, 4-20 mA


OD Series

- AC, DC Power
- DC, $4-20 \mathrm{~mA}$ options


BICM
$+15 /-15 \mathrm{~V}$ or 24 V Power

- DC output


Absolute TTL

- Incremental or absolute,


## Orbit ${ }^{\oplus} 3$ Network

## Brief Introduction

- A fully formed digital measurement system that makes it simple to interconnect high accuracy Solartron instruments, and other sensors to your computer, network, or PLC
- Calibrated sensors with digitised outputs via Probe Interface Electronics modules
- Network up to 150 units, including 3rd party sensors


$$
\text { Pneumatic and spring avaliable from } 0.5 \text { to } 20 \mathrm{~mm} \text { range }
$$




UK
Solartron Metrology


Bognor Regis, West Sussex, PO22 9ST
Tel: +44 (0) 1243833333
Fax: +44 (0) 1243833332
Email: sales.solartronmetrology@ametek.com
France
Ametek SAS
Solartron Metrology Division
Elancourt, 78990 France
Tel: +33 (0) 130688950
Fax: +33 (0) 130688999
Email: info.solartronmetrology@ametek.fr
Germany
Ametek GmbH
Solartron Metrology Division
40670 Meerbusch
Tel: +49 (0) 21599136500
Fax: +49 (0) 21599136505
Email: vertrieb.solartron@ametek.de
Brazil
AMETEK do Brasil, Ltda
Rod. Eng Ermenio de Oliveira Penteado, Km 57, SP75 Bairro Tombadouro 13337-300, Indaiatuba, SP, Brasil Tel: 551921074126

China
Ametek Commercial Enterprise (Shanghai)
Co., Ltd
Shanghai, 200131, China
Tel: +86 2157632509
Email: china.solartronmetrology@ametek.com
USA
Solartron Metrology
USA Central Sales Office
Gastonia, NC 28054
Tel: +1 8008735838
Email: usasales.solartronmetrology@ametek.com
India
AMETEK Instruments India Private Limited Whitefield, Bengaluru 560066
Karnataka, India
Tel: +91 8067823200
Fax: +9180 67823232

Elsewhere we have a global network of distribution partners providing local sales and technical support.

