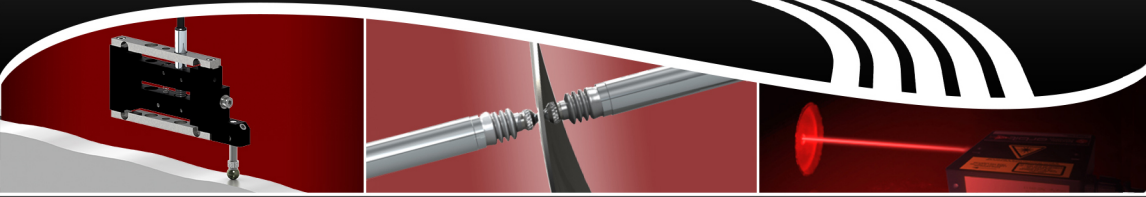


Solartron Metrology - Line card

*Aerospace - Automotive - Non-contact - Dynamic
Electronics - Bearing - Process Automation*

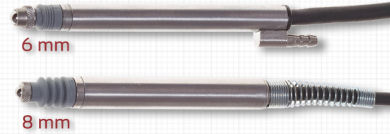


A world leader in high precision linear measurement solutions for quality control, test and measurement, and machine control: Solartron Metrology manufactures high quality digital and analogue gauging probes, displacement transducers, non-contact sensors, and instrumentation.

Gauging

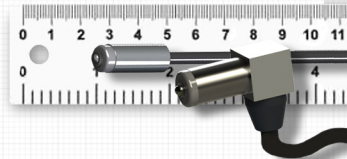
LVDT (Analogue and Digital)

- 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



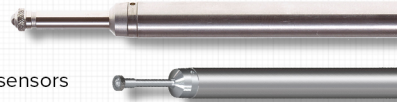
Compact

- Small (<25 mm length) and robust
 - High resolution (as low as 0.01 μm); High repeatability (as low as 0.15 μm); High accuracy (up to $\pm 0.05\%$ of reading, Digital)
- Measuring ranges from 0.5 to 2 mm



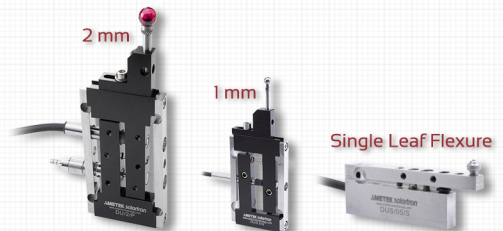
Feather/Ultra Feather Touch

- 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
- Measuring ranges from 2 to 20 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



Mini Probe

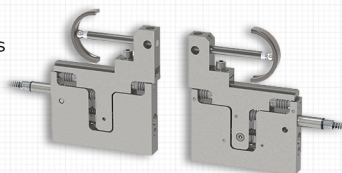
- Compact flexure for bore gauging and other tight applications
 - Sideload capability
 - Up to 0.1 μm repeatability
- 0.5 and 1 mm measurement ranges





Block Gauges

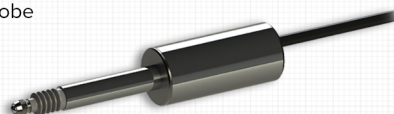
- Precision measurements of bores, cavities, and other awkward dimensions
- Rugged design
- Multiple configurations, including pneumatic and spring
2, 5, and 10 mm measurement ranges



Displacement

G-Type

- Gauging probe with integrated signal conditioning mounted to probe
 - DC Unipolar, BiPolar, and 4-20 mA outputs available
 - Excellent repeatability: < 0.15 μ m
- Measuring ranges of 2 to 20 mm



Optimum

- 9.52 mm diameter narrow bodied high performance sensors
 - Free core and guided available
 - Larger radial bore clearance
- Measuring ranges of 3 to 50 mm



S and SR

- Free core and guided available; Multiple mounting options
 - 19 mm stainless steel body; Signal conditioning can be internal or separate
 - Options include IP65, IP67, high temp, submersible probes, IP68 rated
 - Digital or 4-20 mA outputs available
- Measuring ranges of 5 to 300 mm



We also sell magnetostrictive sensors. Please enquire for more information

Non-contact

Orbit® LT and LTH

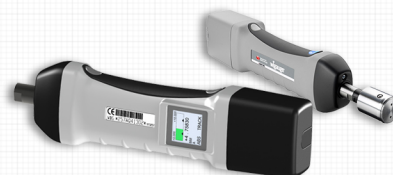
- High precision non-contact lasers for gauging
 - Up to 0.02% F.S. accuracy and 0.0076 μ m resolution (LTH)
 - Seamlessly integrates with other Orbit® Digital Probes
 - Fast, easy and flexible networking
- 15 and 50 mm range for Orbit LT. 2, 10, 20, and 100 mm range for Orbit LTH



Wireless

WiGauge™

- High precision device using bore and width gauges
- Up to 15 metre transmission range via Class 1 Bluetooth®
- Detachable battery with up to 8 hours continuous life
- Optional LCD screen to view real time measurement data



Orbit® 3 Network

Brief Introduction

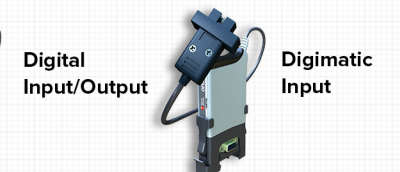
- A fully formed digital measurement system that makes it simple to interconnect high accuracy Solartron instruments, and other sensors to your computer, network, or PLC
- Calibrated sensors with digitised outputs via Probe Interface Electronics modules
- Network up to 150 units, including 3rd party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



Interface Modules

 MODIM Interface • For Modbus PLC	 Ethernet Interface • Ethernet TCP/IP	 RS232 Interface • Up to 150 sensors	 USB Interface • Dynamic modes available	 Wireless Interface • Connect Orbit® 3 stack to PC via Bluetooth®
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Input Modules

 Encoder Input • For TTL, incremental	 Analogue Input • For DC or 4-20 mA	 Digital Input/Output • 8 pins I/O into PLC	 Digimatic Input • Compatible to Digimatic Instruments
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Readouts / Instruments

 SI 1500 • Single Channel (LVDT, DC/4-20 mA & Orbit® versions available)	 SI 3500 • Dual Channel (LVDT, DC/4-20 mA, & Orbit® versions available)	 SI 5500 • Up to 31 Channels	 SI 7500 • Up to 16 Channels
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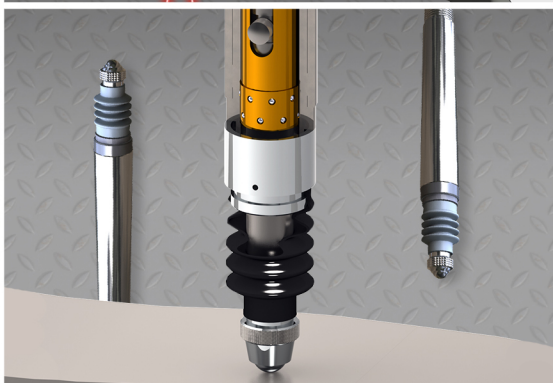
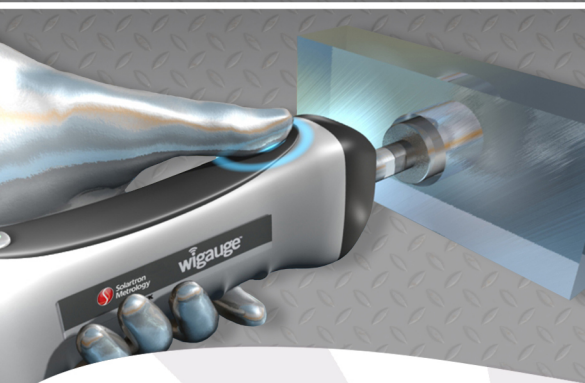
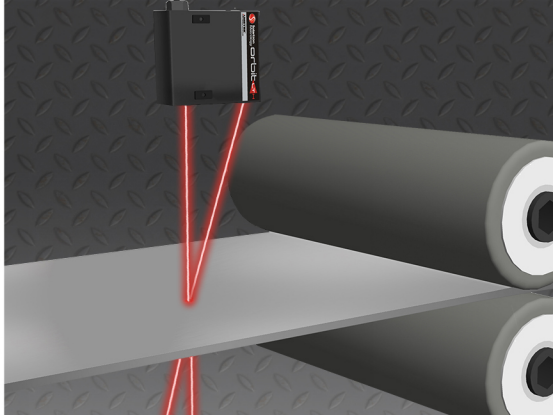
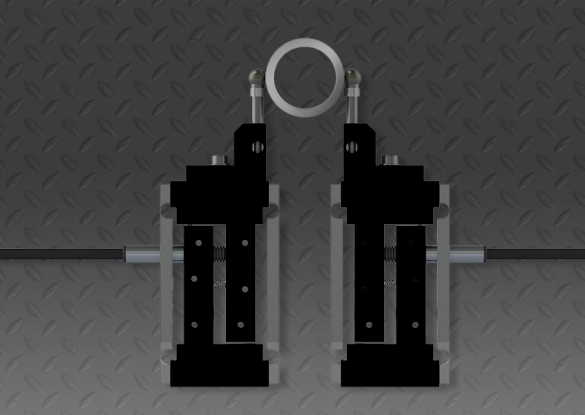
Orbit® ACS (Automation Control System)

- Stand alone Orbit® systems or built for PLC interface
 - 1-4 channels, with Modbus, RS485, RS232, I/O
 - For use with both Orbit® 3 probes and non-contact lasers
- Pneumatic and spring available from 0.5 to 20 mm range



Signal Conditioning

 DIN Rail Conditioner • DC, 4-20 mA	 OD Series • AC, DC Power • DC, 4-20 mA options	 BICM • +15/-15 V or 24 V Power • DC output	 Absolute TTL • Incremental or absolute, for TTL
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