

Solartron Metrology - Line card

Key Linear Measurement sensors
for **Automotive**

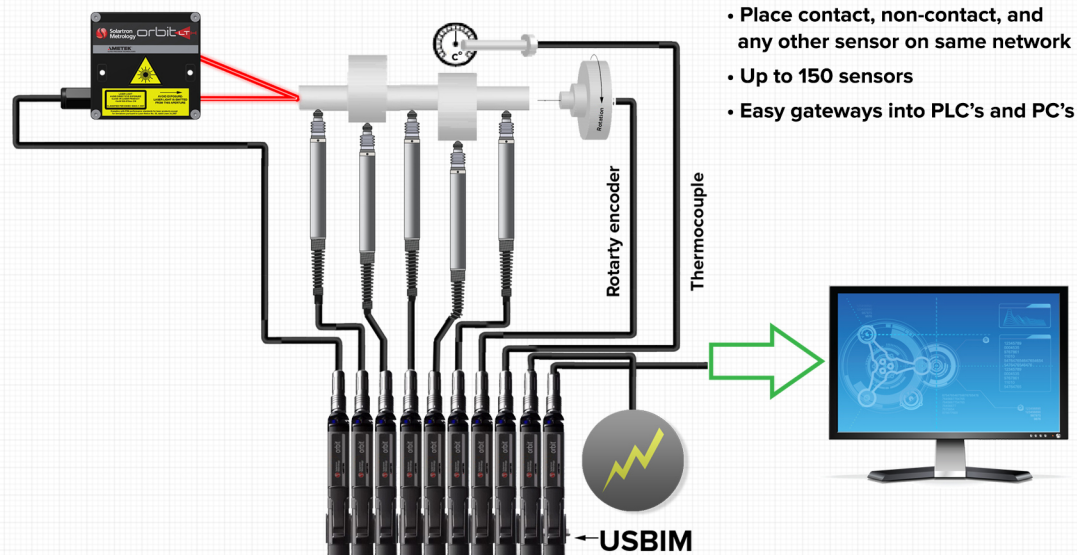


Accuracy - Calibrated Instruments that give you the correct measurement time after time

Simplicity - With the Orbit® 3 Network or Orbit® ACS, connection to PLC's or a network is simple

Ruggedness - Our durable probes have been tested up to 15 million cycles and our flexures up to 20 million cycles

orbit3 orbitLTH



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



Orbit® LT and LTH

- High precision non-contact lasers for gauging
- Up to 0.02% F.S. accuracy and 0.0076 μm resolution (LTH)
- Seamlessly integrates with other Orbit® Digital Probes
- Fast, easy and flexible networking

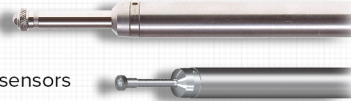
15 and 50mm range for Orbit LT. 2, 10, 20, and 100mm range for Orbit LTH





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



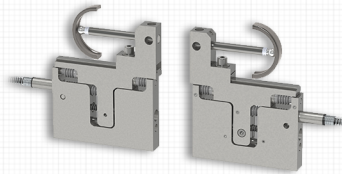
Compact

- 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



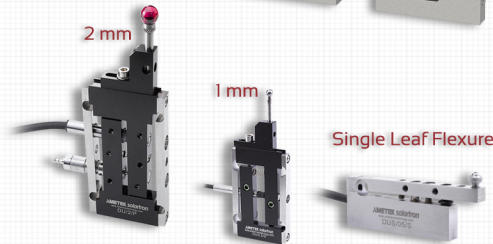
Block Gauges

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



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



WiGauge™

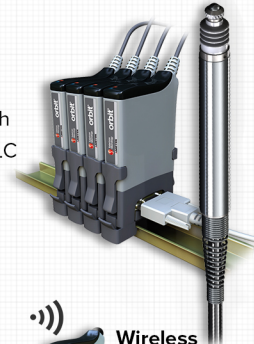
- High precision device using bore and width gauges
- Up to 15 metre transmission range via Class 1 Bluetooth®
- Detachable battery with up to 8 hours continuous life
- Optional LCD screen to view real time measurement data




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

Input Modules

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

Readouts / Instruments




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

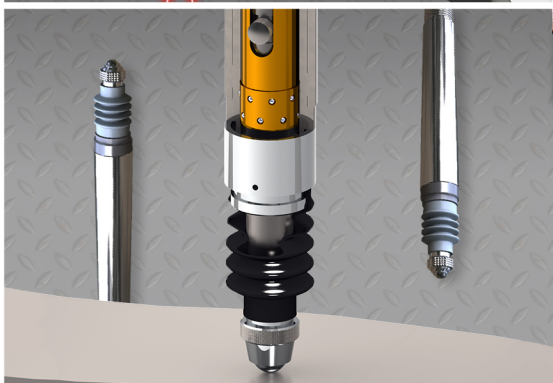
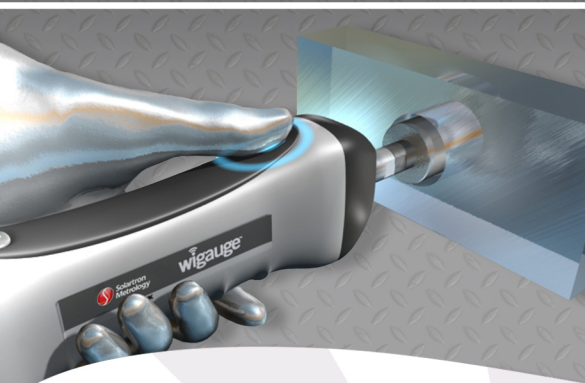
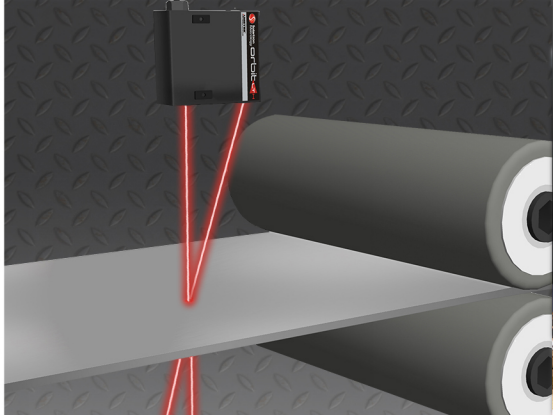
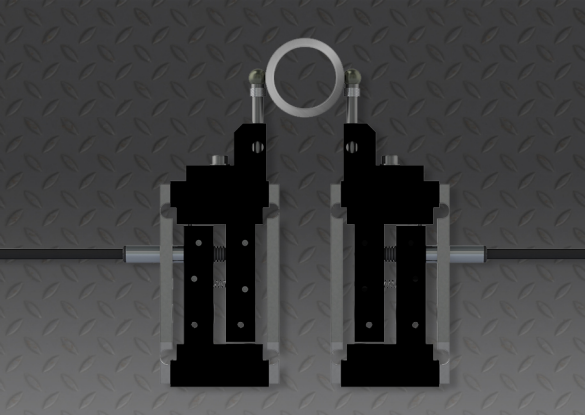
Orbit® ACS (Automation Control System)

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



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