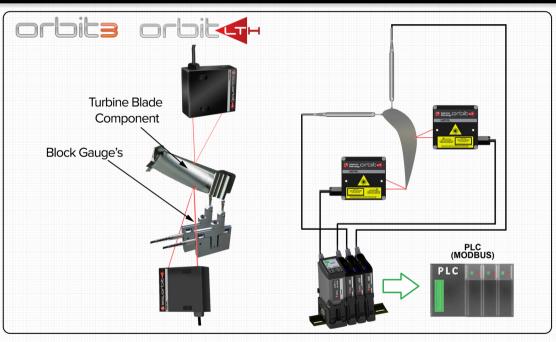


Accuracy - Calibrated Instruments that give you the correct measurement time after time Simplicity - With the Orbit® or Orbit® ACS networks, connection to PLC's or a network is simple Ruggedness - Durable probes that have been tested up to 15 million cycles



### 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 intergrates with other Orbit® Digital Probes
- Fast, easy and flexible networking



8 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

### 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 +/- 0.05% of reading, Digital) Measuring ranges from 0.5 to 2 mm



Single Leaf Flexure

### **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
- and accuracy

# • Tested to 20 million cycles; High resolution, repeatability · 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



Interface

Interface

Interface



• For Modbus PLC

• Ethernet TCP/IP

• Up to 150 sensors

Digital

Dynamic modes available

· Connect Orbit® 3 stack to PC via Bluetooth®

### **Input Modules**



Encoder Input



Analogue Input



Input/Output



Digimatic Input

SI 7500

· For TTL, incremental

For DC or 4-20 mA

· 8 pins I/O into PLC

· Compatible to Digimatic Instruments

#### Readouts / Instruments



· Single Channel (LVDT, DC/4-20 mA & Orbit® versions available)



 Dual Channel (LVDT, DC/4-20 mA, & Orbit®





· Up to 31 Channels



· Up to 16 Channels

· Inline plug

available on

digital probe

versions available)

## 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 avaliable from 0.5 to 20 mm range

# Signal Conditioning



**DIN Rail Conditioner** 

• DC. 4-20 mA



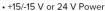
**OD Series** 

- · AC. DC Power
- DC, 4-20 mA options



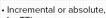
**BICM** 

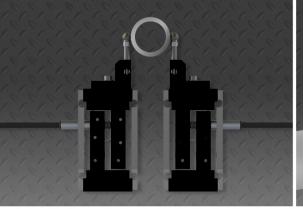
· DC output

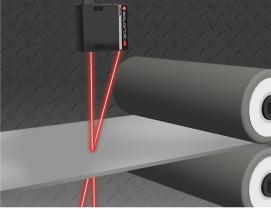
















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