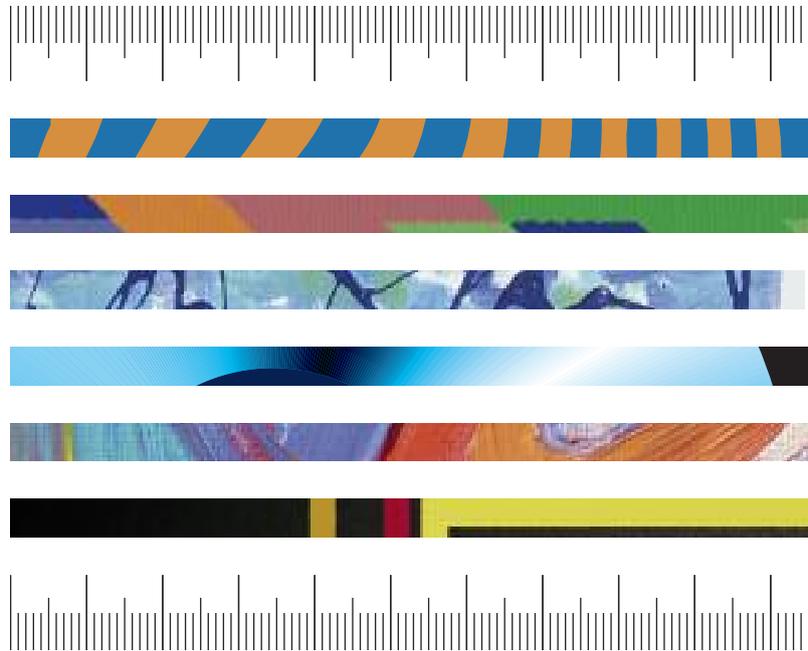


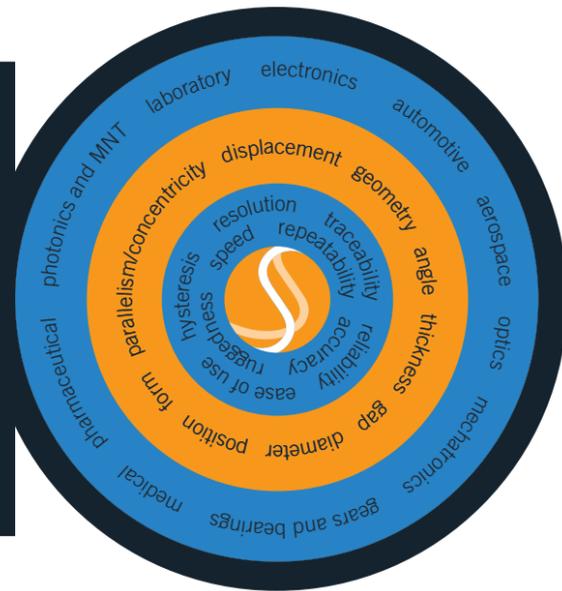


World leaders in  
linear measurement



**Precision  
measurement  
solutions for  
industry**

# World leaders in linear measurement...



Solartron Metrology is a world leader in the innovation and manufacture of precision digital and analogue dimensional gauging probes, displacement transducers, optical linear encoders and associated instrumentation.

Headquartered in the UK, with sales offices in the Americas, Europe and Asia, and distributors in over 30 countries worldwide, around 90% of our production is exported.

In the lab, on the shop floor or in the field, Solartron Metrology products provide precise linear measurements for quality control, test and measurement and machine control in, for example, the automotive, electronics, aerospace, materials, optics and semiconductor industries... anywhere, in fact where accuracy and consistency are critical to the process.

The inherent reliability of Solartron Metrology measurement technologies reduces the cost of ownership, a big factor for many users.

As mechanical components become smaller and more intricate, the accuracy of their

manufacture is an increasingly complex challenge. Our latest smaller, more adaptable gauging products, including flexure, lever and mini probes, and block gauges are designed to address these problems. We also have a new range of advanced displacement transducers, the S Series, engineered to interface with modern data acquisition and control systems.

The inherent simplicity and flexibility of the company's Orbit digital network system makes it the perfect platform for all these new measuring devices plus, of course, others in the pipeline.

Solartron Metrology recently became part of the Ultra Precision Technologies division of AMETEK Inc, a leading global manufacturer of electronic instruments and electric motors with annual sales of more than \$1.6 billion.

Rest assured that wherever you are, whatever your application, we have the technology, the commitment and the resources to help you make it better.

[www.solartronmetrology.com](http://www.solartronmetrology.com)



**solartron**  
metrology

**AMETEK**  
ULTRA PRECISION TECHNOLOGIES

AMETEK • Clear Vision • Sound Strategies • Solid Performance

Headquartered in suburban Philadelphia, AMETEK, Inc., is a leading global manufacturer of electronic instruments and electric motors, with approximately 8,100 employees. AMETEK has plants and operations in the United States and 15 other countries.

Guiding AMETEK is a *Corporate Growth Plan* based on four key strategies: Operational Excellence, Strategic Acquisition & Alliances, Global & Market Expansion, New Products.

# Our markets

## Automotive

This represents one of our largest segments of activity. Our products are extensively utilised in many measurements of power and transmission components, safety glass, etc...

## Aerospace

A growth segment due to increasing passenger numbers worldwide. The manufacture of aero engines requires precision metrology and transducer robustness that are fundamental features of our products.

## Gears

Our products are used in the quality assessment of power transmission components that are present in many industrial fields, such as automotive, energy production, marine, printing, etc...

## Bearings

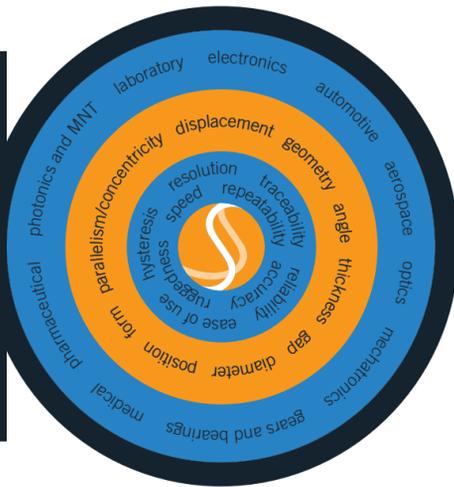
Whether it is surface finish or dimensional accuracy, bearings metrology is extremely demanding. Our products offer the best performance on the market in terms of accuracy and repeatability.

## Process Automation

The use of robots and automated processes is increasingly visible in industry across the globe. Speed and less reliance on manpower is critical to many industrial processes. Many of our transducers and electronics are featured in this field.



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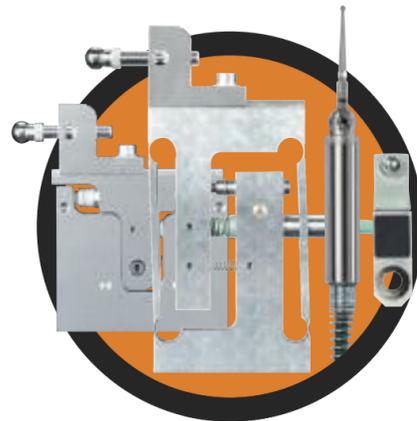


## Our products

### Gauging Transducers

Our extensive range includes Inductive and Optical encoder Probes, Digital Probes and probes with integrated electronics.

- > Measurement ranges from 0.5mm to 100mm
- > Accuracy to 0.1% of reading (inductive) or 0.4µm for encoders
- > Resolution down to 0.01µm or better
- > Probe diameters from 6mm
- > LVDT, Half Bridge, TTL or Digital (Orbit) interface
- > Spring push, Pneumatic push, Vacuum retract
- > Precision linear bearings
- > Traceability to NPL (National Physical Laboratory, UK)



### Specialist Gauging Transducers

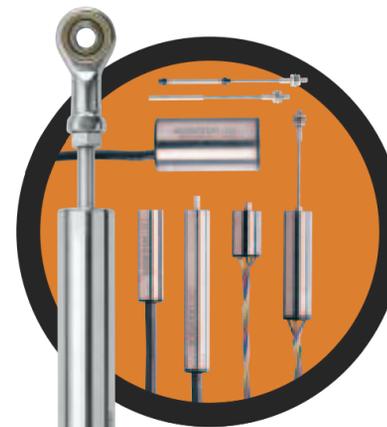
Our Specialist Gauges make precision measurements of miniature parts, bores and cavities a simple and reliable process.

- > Measurement ranges from 0.5mm to 10mm
- > Resolution down to 0.01µm
- > Repeatability: <0.25µm
- > IP65 protection
- > Digital, LVDT and half bridge
- > Pneumatic or spring actuation
- > Range of changeable tips

### Position Measuring Transducers

Regardless of whether a miniature displacement sensor is used within a semiconductor manufacturing process, or a submersible transducer is monitoring the deformation of a structure in sea water, the need for reliability over long periods remains the same.

- > Digital options with 5mm to 300mm measurement range
- > Analogue options with ±2.5 mm to ±150 mm range
- > DC and 4-20mA versions with integral electronics
- > <0.2% Linearity FRO
- > Hermetically sealed and submersible on request
- > IP67 protection
- > Rugged construction
- > High performance
- > Small body diameter
- > large radial core to bore clearance
- > Rigid stainless steel carriers
- > Wide range of accessories

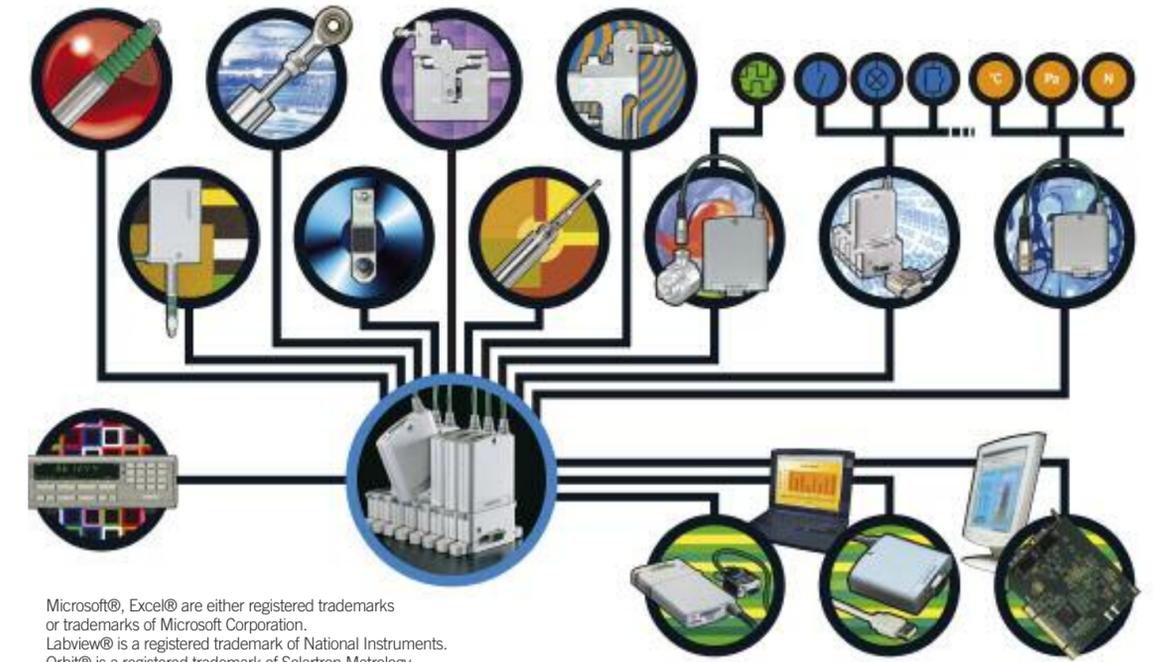


## Orbit® Digital Network

The Orbit measurement system is the fast and simple way to network dimensional and position measuring transducers together with many other third party devices, such as temperature and strain sensors, air gauges, etc.

- > Simple modular system means that measurement systems can be put together easily, quickly and cost effectively.
- > One stop shop: all measurement components supplied including sensors, electronics, interconnection system and software drivers.

- > Mix transducer types on a single network, with one common interface, regardless of sensor technology. In addition to Solartron digital transducers, connect third party sensors, e.g. pressure, temperature, force through the Orbit Analogue Input Module (AIM). Read switch inputs and set control outputs through the Orbit Digital Input / Output Module (DIOM).
- > Take readings directly into Microsoft Excel® for powerful data processing capability and rapid measurement system development. Support for all common programming languages including National Instruments® LabVIEW®



Microsoft®, Excel® are either registered trademarks or trademarks of Microsoft Corporation. Labview® is a registered trademark of National Instruments. Orbit® is a registered trademark of Solartron Metrology.

### Instrumentation and Electronics

To compliment our range of digital and analogue transducers, we have an extensive choice of Instruments and Electronics. The range includes numerical displays and controllers as well as high performance signal conditioning modules for our LVDT, and half bridge transducers.



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