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www.solartronmetrology.com

Who are Solartron?

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

Working alongside the UK headquarters they have sales offices in the Americas, Europe and Asia and distributors in over 30 countries worldwide.

Solartron Metrology is part of the Ultra Precision Technologies division of AMETEK Inc., a leading global manufacturer of electronic instruments and electromechanical devices, with annual sales of more than \$2.5 billion and approximately 11,000 employees. AMETEK has more than 80 manufacturing facilities and over 80 sales and service centres in the USA and around the world.

Wherever you are based in the world and whatever your application, Solartron Metrology has the technology, the commitment and the resources to help you measure it better.



Our markets

Automotive
As the complexity and precision of automotive components becomes more demanding, the choice of sensor and the way that data is processed becomes more critical for each application. Solartron's products are extensively used in many measurements of power and transmission components within the automotive industry.

Aerospace
The constantly evolving manufacture of aero engines requires precision metrology and sensor robustness, these features are fundamental in Solartron's products.

Bearings
Whether it is surface finish or dimensional accuracy, bearings metrology is often extremely demanding. The right choice of sensor can improve the manufacturing efficiency, accuracy, reliability, speed of operation, service intervals and the costs of operating machinery.

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Process Automation
The use of robots and automated processes is increasingly visible in industry across the world. Speed and less reliance on manpower is critical in many industrial processes and many of Solartron's sensors and electronics are featured within this field.

Electronics & Mechatronics
High precision and high volume electronic and mechatronic component manufacturing, coupled with very short cycle times, are very demanding tests for any position sensor. Solartron's absolute position and gauging sensors provide the speed, sub-micron accuracy and reliability required to produce measuring solutions reliably and cost effectively.

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World leaders in linear measurement



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Our products

In the laboratory, on the shop floor or in the field, Solartron Metrology's products provide precise linear measurements for quality control, test and measurement and machine control. As mechanical components become smaller and more intricate, the accuracy of their manufacture is an increasingly complex challenge. The inherent reliability of Solartron's measurement technologies reduces the cost of ownership which is a major factor for many users.

orbit³

Digital Network

The Orbit 3 measurement system provides a fast and simple solution for building large, flexible sensors and gauging systems with a single common interface, regardless of sensor technology. Its high data transfer rates provide dynamic and synchronisation capabilities for the measurement of moving parts. In addition to Solartron's digital sensors, the network allows a wide range of third party sensors to be connected, including pressure, temperature and force sensors.



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Gauging Sensors

Solartron's extensive range of gauging sensors includes inductive and incremental probes, digital probes and probes with integrated electronics.

- Measurement ranges from 0.5 mm to 25 mm
- Accuracy to 0.1% of reading (inductive) or 0.4 µm for encoders
- Resolution down to 0.01 µm or better
- Precision linear bearings for very long life and robustness
- Traceability to NPL (National Physical Laboratory, UK)

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Customised Gauging Sensors

Solartron's customised gauging sensors make precision measurements of miniature parts, bores and cavities a simple and reliable process.

- Measurement ranges from 0.5 mm to 10 mm
- Resolution down to 0.01 µm
- Repeatability down to <0.1 µm
- Traceability to NPL (National Physical Laboratory, UK)

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Instrumentation and Electronics

To compliment Solartron's range of digital and analogue sensors, there is an extensive collection of instruments and electronics, including numerical displays and controllers as well as high performance signal conditioning modules for the LVDT and half-bridge sensors.

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Position Measuring Sensors

Regardless of whether a miniature displacement sensor is used within a semiconductor manufacturing process, or a submersible sensor is monitoring the deformation of a structure in sea water, the need for reliability over long periods remains the same and Solartron's position measuring sensors guarantee this reliability.

- Digital options with 5 mm to 7.6 m measurement range
- DC and 4-20 mA versions with integral electronics with 5 mm to 7.6 m measurement range
- <0.2% Linearity FRO
- Hermetically sealed, submersible, IP 68/67/65 versions

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Miniature Displacement Sensors

Solartron's range of miniature displacement sensors are suitable for varied applications including high speed precision positioning, such as semiconductor wire bonding, or within hand held instruments, e.g. hardness testers.

Size is a common constraint in many displacement measuring or positioning applications. Solartron's miniature displacement sensors do not suffer from a reduction in performance or life expectancy in challenging environments.

*When used with BICM high bandwidth signal conditioning

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OEM Custom Displacement Sensors

Solartron has complete in-house control over all aspects of the design and manufacture of their extensive range of products, which has enabled many years' experience in providing cost effective customised solutions for OEM's and System Integrators.

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Wireless Hand Tools

Solartron's wigauge™ wireless bore gauge is the first in a new range of Bluetooth® enabled linear measurement and gauging products. With a range of 15 metres and a battery life of up to 10 hours, they offer manufacturers greater freedom in workstation design and practice.