

'Live' sensor demonstrations at Mtec solve real world measurement tasks



At this year's Mtec 2008 exhibition (13-14 February 2008), sensor manufacturer Micro-Epsilon (UK) Ltd will be showcasing a range of unique sensor products on its brand new designed 30m² stand (stand 1054). The stand will include 'live' working demonstrations of sensor products solving real-world measurement problems.

With more than 30 years' experience in the industry, Micro-Epsilon isn't just a manufacturer of sensors. Micro-Epsilon products are truly innovative and the company understands the importance of providing complete solutions for its customers. The focus is on selling technical advantage to its clients. The company is renowned for its expertise in consulting, development and application of industrial sensors to complex, customer-specific solutions for measurement, inspection and automation. The company develops and manufactures sensors and sensor systems that measure displacement, distance, position, vibration, dimensions and thickness, using both contact and non-contact techniques, including 2D/3D laser optical, confocal chromatic, eddy current, capacitive, inductive, draw-wire, time-of-flight and non-contact infra-red thermometers.

New to the stand this year is the company's miniature confocal sensor, the **optoNCDT 2402**. Representing a world first in optical sensor miniaturisation, this new range of miniature confocal displacement measurement sensors have a diameter of just 4mm (standard sensor diameters are 27mm), making the sensors ideal for measuring inside confined spaces, including narrow cavities, drilled holes and bores. As well as



axial measurement, the new range also includes a 90-degree version, enabling users to measure (radially) the inner surfaces of small components or bores.

Visitors to the stand will also be able to look at the new controller for the 2401 confocal series, the **IFC 2401**. This controller incorporates a super-bright LED light source and USB 2.0 interface for high-speed data transfer and configuration of the controller. The sensor also has analogue interfaces for easy integration into the customer's application.

Micro-Epsilon will also be demonstrating its new simplified user software for the **scanCONTROL 2810**, the company's 2D/3D laser line sensor. The sensor itself is capable of measuring up to 256,000 points per second up to 4kHz. The new easy-to-use software will enable machine builders, systems integrators and end users to more easily adapt and configure the system for different applications. No special software programming skills are required and the system offers very high speeds and accuracies, enabling end users to inspect their products in-process in real time. Triggers and alarms can be set up using the software, so that when limits or tolerances are exceeded, users are alerted.

Typical applications for the sensor system include weld seam inspection; glue bead inspection; door edge detec-

tion; angle measurement; step and height measurement; planarity and surface control on PCBs; robot guidance and positioning; and groove width and depth measurement

Micro-Epsilon has also introduced a new range of controllers for its non-contact capacitive displacement sensor range. These controllers enable longer cable lengths between the sensor and the controller of up to 20 metres. The **capaNCDT 6100 and 6300** sensors themselves offer unmatched resolution (sub-nanometre), extreme stability and can be used on any conducting target. There's also a brand new 50kHz output rate option on the capaNCDT 6350 series.



For more information on Micro-Epsilon's range of sensors, or for a product demonstration, please call in on stand 1054 at MTEC 2008 or call the sales department on 0151 260 9800 or email: info@micro-epsilon.co.uk