



## LASER PROFILE SENSORS

Precision sensor manufacturer **Micro-Epsilon** UK will be showcasing its full range of sensor technologies, including non-contact capacitive, confocal and inductive displacement sensors, as well as 2D/3D laser profile sensors, colour recognition sensors, infrared temperature sensors and thermal imagers.

Among the product demos, the scanCONTROL 2610-25 SMART series of 2D/3D laser profile sensors offer a plug-and-play solution on the integrated sensor controller for simple measurement tasks such as step, angle, seam and groove inspection.

The stand will also feature a demonstration of the ACS7000 online colour measurement system, which not only recognises reference colours by comparison, but also identifies individual colours from their coordinates in the colour space. **Stand B2**

**Tel: 0151 355 6070**



## ATEX-APPROVED

Visitors to the **Impress Sensors & Systems** stand will be able to see the IND range of ATEX-certified industrial pressure transmitters, which is manufactured in the UK by the instrumentation specialist.

The transmitter has a piezoresistive ceramic or stainless steel silicon pressure sensor installed in a stainless steel housing, providing it with excellent media compatibility across a wide range of hazardous gas or dust environments.

The transmitters are available in pressure ranges from 0.1 to 700 bar in gauge, sealed gauge or absolute reference versions, with various mV, Voltage and Current output options. **Stand D28**

**Tel: 0118 981 7980**



## Sensors & Instrumentation for Test, Measurement & Control

# NATIONAL SENSORS EVENT

Taking place at the NEC Birmingham on Wednesday 30th September and Thursday 1st October, this year's **Sensors & Instrumentation** exhibition promises to be even bigger and better than previous shows.

Highlights include an exhibition of the latest products and technology from over 100 market-leading suppliers. This will provide visitors with the chance to speak to

knowledgeable members of staff about the latest developments and applications, and to see new products and well-established ranges – all in one venue.

The popular seminar programme will once again take place over the two days of the show and will include presentations from leading suppliers in the test, measurement and control industry, including National

Instruments, HBM, Sensirion and DJB Instruments, to name just a few.

Another new addition is the 'Innovation Showcase'. This special display area within the show floor will provide the perfect opportunity for exhibitors, conference presenters and industry leading companies to demonstrate their latest products and innovations.

**Tel: 01822 614671**

## MEASURING TORQUE WITHOUT SLIP RINGS

The Sensors & Instrumentation Exhibition will play host to a wireless technology for measuring power in drive shafts and other rotating machine elements in the form of TorqSense Rotary Torque Sensors from **Sensor Technology**.

Unlike traditional slip ring transducers they use a simple non-contact radio link for collecting real-

time torque signals, letting machine builders and control engineers do away with expensive and temperamental slip rings. Thus simply mounting the sensors and checking the radio connection is all that is required for set up.

To achieve the non-contact operation that makes the TorqSense transducer range unique, SAW (surface acoustic waves) devices are used as frequency-dependent strain gauges to measure the change in resonant frequency, caused by strain experienced in the driveshaft. This measurement is directly related to the torque experienced in the rotating machine element. **Stand D15**

**Tel: 01869 238400**



## TESTING & DATA ACQUISITION

Leader in test and measurement, **HBM** will be exhibiting its powerful new solution for eDrive testing, together with a range of data acquisition systems and sensors, at this year's Sensors and Instrumentation Exhibition.

The company's new eDrive Test System is a robust, integrated system for measuring the performance and efficiency of electric motors and inverters. It combines HBM's T12 or T40 Torque Sensor; the GEN3i Data Acquisition System; and, as an option, the QuantumX 1609B Temperature Satellite, to provide synchronous, dynamic and continuous acquisition of mechanical and electrical signals from an electric drive system.

In addition to making



temperature, torque and rotational measurements, the eDrive testing solution from HBM can also make measurements from as many as 18 current and voltage channels at voltages up to 1000V, at a sampling rate of up to 2 MS/s. **Stand E26**

**Tel: 020 8515 6100**

## NEW SENSORS & AMPLIFIER

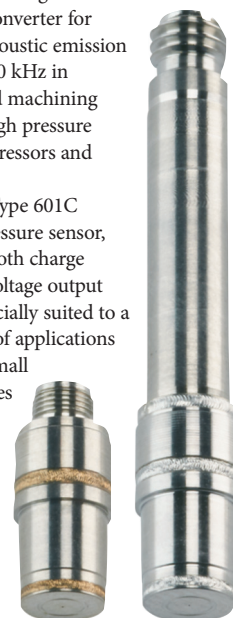
**Kistler Instruments** will be showing three new products; acoustic emission sensors, high sensitivity miniature pressure sensors and a signal amplifier for both piezoelectric and voltage output sensors.

The Kistler Acoustic Emission Sensor has an integral impedance converter for measuring acoustic emission (AE) above 50 kHz in bearing based machining structures, high pressure vessels, compressors and valves.

The new Type 601C miniature pressure sensor, available in both charge output and voltage output types, is especially suited to a wide variety of applications where very small pressure pulses need to be measured.

The new Kistler LabAmp Type 5165A, especially suited for use with the new Type 601C pressure sensor, is designed specifically to combine impressive flexibility with convenient usability for the measurement of dynamic signals. **Stand C23**

**Tel: 01256 741550**



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