

Sensing Technology: the place to be

With the latest products in areas such as sensors, test, measurement and data acquisition on show, the NEC, Birmingham, is the place to be on 25-26th September for **Sensing Technology 2012**

Since its launch in 2010, the annual Sensing Technology exhibition has gone from strength to strength, ensuring visitors will find even more relevant products and information at each visit. Over the years the exhibition has also evolved – and now covers not only sensors and sensing solutions, but also other associated areas of instrumentation including test and measurement systems, calibration, meters, analysis devices and so on.

Sensing Technology 2012 will be co-located with MM, MEMS and NANO in Hall 3 at the NEC, Birmingham, with Mediplas and TCT Live in Hall 3a, and the PPMA show one Hall away. The latest news, however, is that Datateam Business Media has joined forces with Trident Exhibitions to run Sensing Technology this year. This means that Trident's Sensors & Systems show will now not be taking place at Silverstone in October. But, as a result, visitors will now be able to attend just one show covering even more products and featuring more exhibitors, rather than having to take the time to attend two exhibitions just a few weeks apart.

Sensing Technology will also feature a comprehensive seminar programme, with a variety of speakers covering a range of interesting topics. Up-to-date information on the seminar programme can be found on the website.

What can you expect to see?

Visitors will be able to see a wide range of products and solutions at Sensing Technology 2012, and some companies will be launching new products.

For a start, not only will Bürkert be showing process systems solutions and holding a seminar, but it will also be using the show to launch a new version of its multiCELL controller. The revised type 8619 multiCELL transmitter/controllers are designed to cut costs in processing applications – a systems engineer can in many instances replace an entire control cabinet with one neat controller with a built-in display. This also has the entire suite of data management and process control software modules already on-board, allowing easy management of sensor signals and process data collection. Married to data processing and display, plus easy control parameters that can be adapted to take care of a huge range of process



Visitors to Bürkert's stand will be able to find out about such products as the multiCELL controller



Sensor Technology will be showing its latest torque and load measuring solutions

Right: Dewetron's TRION for data acquisition

tasks, the unit is easy to use. Due to its modular expansion facility, multiCELL users pay only for the features that they actually require. Bürkert will also be displaying a wide range of its own specialised flow, pH, pressure, temperature and level sensors.

Sensor Technology, meanwhile, will be showing its latest torque and load measuring solutions. On display will be the new TorqSense Digital RWT410/420 series torque transducers which have integral digital electronics and offer cost effective, non-contact digital rotary torque measurement, using Surface Acoustic Wave (SAW) technology.

Visitors will also be able to see the wireless LoadSense load sensor, a strain gauge based stainless steel tension type sensor with the capability of wirelessly transmitting its data to a compatible readout and displaying or recording its data locally. Its inbuilt 32MB memory can hold up to 149 hours of data, which can then be downloaded to a PC via its USB cable.

National Instruments will be demonstrating a selection of new products. For a start, the company will be showing LabVIEW 2012 – unveiled this August. Each new version of LabVIEW accelerates the productivity of engineers and scientists building any measurement or control application. This has new features and resources to help the user write better quality code and build their systems using good architectures and development practices.

Also released in August was the new NI CompactDAQ stand-alone system which offers a high-performance embedded measurement and logging platform with a built-in dual-core Intel processor for running data acquisition, online analysis, and logging software. Visitors will also be able to find out about the new NI Data Dashboard, which is available on the Apple, Amazon and Android app stores.

Those visiting **Micro-Epsilon's** stand will have the opportunity to view the latest innovations in infrared temperature measurement, thermal imagers, eddy current and laser displacement measurement. On view will be the new thermoIMAGER TIM 400 and 450 series of inline infrared

thermal imagers which can capture and store thermal video and images with extremely high optical resolution at a full frame rate of 80Hz.

The company will also be displaying the thermoMETER CSmicro, one of the smallest infrared temperature sensors currently available. This has a diameter of 14mm, with the electronics now fully integrated in the cable. On the displacement measurement side will be Micro-Epsilon's eddyNCDT 3100, and it will also be showing other products such as the optoNCDT 2300, a self-contained laser displacement sensor.

Also at the exhibition, **Avancer** will be launching the full range of Autonics Corporation Sensors and Instrumentation to the UK. The range includes rotary encoders, absolute encoders, proximity sensors, photoelectric sensors, fibre optic sensors as well as a full range of instrumentation and process control products.

On the stand the company will have a full range of products for demonstration and display, including counters, timers, PID controllers, panel meters, graphic panels and sensors.

Not only that but visitors to the stand can enter a competition to win a chance to drive four supercars in one day – the Ferrari Modena 360, Lamborghini Gallardo, Aston Martin V8 Vantage and a single seat racing car.

Dewetron will be displaying TRION, a new data acquisition family. TRION offers a range of modular measurement systems based on plug-in amplifier/digitizer modules sampling at 200kS/s with 24 bit resolution. Input modules are available for voltage measurement up to 1200V, strain gauges, IEPE accelerometers, CAN BUS, IRIG and digital with super-counters. Systems range from the ultra-portable DEWE2-A4 with up to 32 channels through to portable and lab-based systems with up to 144 channels.

A key factor is clock synchronisation of all channels and related inputs such as CAN, video, GPS and digital, achieved with SYNC-CLOCK technology. Find out more from the company by speaking to experts at the exhibition.

Ixthus Instrumentation will be displaying the new 8661 series non-contact torque sensor from Burster,

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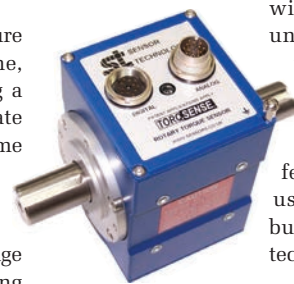
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