

# Sensors, seminars and so much more

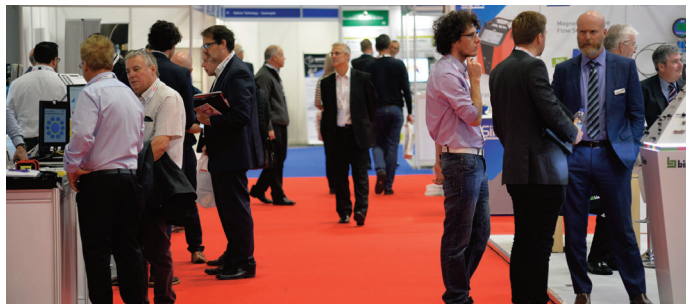
Sensors & Instrumentation, sponsored by Mouser Electronics, will return to Hall 1 of the NEC, Birmingham on 25th and 26th September 2018. Registration is now open and there are a number of reasons to visit

In its ninth year, the Sensors & Instrumentation exhibition is the UK's only national sensors event for test, measurement and control. The show acts as a hub for market-leaders to display their latest devices and, with more than 80 exhibitors, visitors will find products to suit a myriad of applications.

## Seminars and workshops

The event will offer a CPD-accredited seminar programme presented by exhibitors and prominent figures within the industry. Seminars will address contemporary issues, adding value to the visitor experience. Speakers include Neil Hamilton of Myriad Group, Alison Mitchell of Sensor City and Jiri Polak of IST.

The 2018 event will see the



## SENSORS & INSTRUMENTATION for Test Measurement & Control

introduction of an Engineering Workshop series. Condensed into 45 minute sessions, the workshops are aimed at engineers in the early stages of their careers, looking to learn more about different topics including calibration and laser measurement. Experts will explain how instruments work and the applications in which they can be

used. There will also be the opportunity to get hands-on experience with the products.

## FLC Zone

The Flow Level Control Zone is new for 2018. Providing a platform for the latest technologies in the flow, level and control sector, this niche area will showcase a range of products

and solutions, ranging from the latest valves and flow meters to airbrators and vessels designed to optimise control.

## Innovation showcase

The Innovation Showcase, sponsored by Bronkhorst, has been expanded to allow more exhibitors to display their latest products and technology.

## Formula 1 simulator

Sponsored by Rheintacho UK, the Formula 1 simulation car gives visitors the opportunity to compete with their colleagues for the fastest lap time.

## Co-location

The 2018 show will share a hall with What's New In Electronics (WNIE) Live and will continue to be co-located with TCT Show and PPMA.

For more information and to register for a free entry badge, visit [www.sensorsandinstrumentation.co.uk](http://www.sensorsandinstrumentation.co.uk).

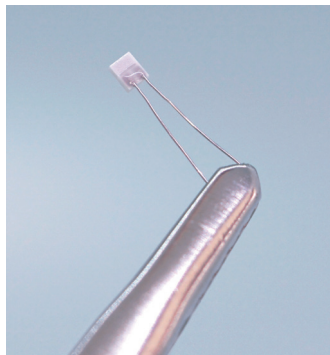
**Tel: 01622 699129**

## ESCC-qualified sensors

**Innovative Sensor Technology** IST AG now offers ESCC-qualified thin-film Pt temperature sensors, which will work from -200 to +200°C.

After a four-year evaluation and qualification phase, during which the sensors proved to be suitable for use in space, IST AG received the ESCC-certificate from the European Space Agency (ESA) in February 2018. The certified sensors are also suitable for other high reliability applications, such as in aerospace or automotive.

They are resistant to thermal cycles and provide stable measurement results at 70,000 cycles from -200 to +200°C. Furthermore, they are drift stable, have a small size (L x W x H: 2.3 x 2.0 x 1.3mm), are light, and very robust



with no moving parts.

The RTDs are available with resistors from Pt100 to Pt2000 and correspond to tolerance class B (IEC 60751 F0.3). They are available as Engineering Model (EM) as well as Flight Model (FM). If required, IST AG also offers customer-specific adaptations of the sensors. Stand G14  
**Tel: +41 71 992 01 00**

## Latest transmitters

**Sensor Technology** has a new range of transmitters that can add wireless capabilities to any make of strain gauge. The WSG series transmitters allow any manufacturer's strain gauge to send readings to Sensor Technology's wide range of displays and readouts, which can be located at a distance from the gauge itself.

Alternatively they can be used with the company's PC-based software so that, as well as direct read out, analysis and interpretation can be completed instantly.

The transmitters are for use with 350 ohm strain gauges and above. Calibration data is set using simple

interface software. The wireless signal transmission is based on the unrestricted 2.4GHz technology, so does not need an operating licence.

In use because there is no need to install and protect long cable runs from the gauge to the readout, the WSG units create a versatile and easy to install system. This also makes it simple to move the equipment between installations if required.

There are various models available within the range. Stand H2  
**Tel: 01869 238400**



## Coping with extremes



In connection with a project for one of its customers, **RHEINTACHO** FC and FE rotational speed sensors have successfully passed an extreme temperature change test.

The customer had stringent requirements for the stability of components - in this case rotational speed sensors - against temperature changes.

RHEINTACHO's solution consists of two rotational speed sensors. Mechanically, it is based on the FC sensor and electronically on the FE sensor version as a 2-channel hall-difference sensor. It is suitable for detecting rotational speed and direction and can detect standstill (0Hz). The connection interface uses a common type of Deutsch-plug. The sensor's protection class is IP6K9K / IP67.

The mechanical and electronic

components are capable of withstanding extreme temperature change stress. The test procedure is simple, yet demanding: 1000 change cycles between -40 and 125°C. Change time between temperature limits is 30 seconds maximum. Dwelling time at temperature limits is 40min each.

All tested rotational speed sensors passed the 'torture' test and were fully functional afterwards. Stand C12  
**Tel: +44 (0)113 287 4411**