

## Measures temperature & humidity

**Rotronic** has replaced its HP22 with the new HP32 temperature and humidity measurement handheld with interchangeable probe input for all Rotronic HC2-series probes, full logging and spot-value recording functions and much more.

As well as temperature and humidity values, two other moisture parameters such as dew point and g/kg moisture for example can be displayed on the screen simultaneously.

Precision temperature and humidity measurement ranges from -100 – 200°C (probe



dependent), 0-100 %rh. All moisture values are available, two can additionally be shown on the display.

Audible and visual alarms (all parameters) are freely configurable.

The HP32 handheld is supplied with HW4-LITE version PC software, a micro USB data cable for PC connection & battery charging, and a soft protective case. Technical datasheet available.

**Tel: 01293 571000**

## Displacement sensor

**SICK** has launched the OD5000 displacement sensor to provide high-performance measurement at frequencies of up to 80kHz even with fast-moving and rotating objects, and in high-speed production.

The sensor is also said to have an outstanding capability for thickness measurement of surface coatings and transparent materials.

Meeting customer demands for improved production monitoring and quality assessment at high speeds, the SICK OD5000 is a laser sensor that ensures

precision measurement and accurate product positioning for difficult-to-detect moving objects or surfaces finishes.

"The SICK OD5000 is the high-precision laser sensor of the SICK OD displacement sensor family," explains Neil Sandhu, SICK's UK product manager for measurement systems, "yet it offers excellent value for its performance.

**Tel: 01727 831121**



## Torquing up success at Formula Student

Engineering education competition, Formula Student (FS) aims to develop enterprising and innovative young engineers and is designed to test students' abilities and demonstrate their capabilities to deliver a complex and integrated product in the demanding environment of motorsport.

Entry into the competition usually forms part of a degree-level project and is viewed by the motorsport industry as the standard for engineering graduates to meet, transitioning them from university to the workplace.

**Sensor Technology** has supplied a TorqSense system to the Formula Student team at Lisbon's Instituto Superior Técnico, so that they can develop a high performance electric motor for their car. Their efforts will be doubly impressive as the



power/weight ratio is said to far exceed any previous electric motor development undertaken in Portugal.

The TorqSense sensor will allow the team to measure the motors' torque to predict its behaviour once installed in the car. The team will be testing motors to their limits in the test bench, so should eventually be able to predict completely how they will perform in all circumstances.

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## Precise, robust and easy

According to **ifm electronic** customers have been asking for accurate detection of small parts for many years. In areas such as assembly automation for product verification and error proofing, tiny components can be seated on metal in a crowded area, where detection is extremely difficult.

The OGD Precision photoelectric sensor from ifm electronic has a light spot only 1mm across at 150mm, or 3mm at 300mm and still distinguishes the object from the background, so small, dark objects are detectable in the most arduous of positions.

OGD has been designed to provide simple and intuitive sensing; the housing has an M18



thread and an overall width of less than 23mm, so it will fit in tight spaces.

The three pushbuttons and distance display make it easy to use. The OGD has IO-Link as well, meaning that setting can be carried out remotely and parameters stored for peace of mind.

**Tel: 0208 213 0000**



## Positioning system

The PXV 2-D absolute positioning system from **Pepperl+Fuchs** is said to set new performance benchmarks when it comes to reliability and handling. With its large reading window, the system keeps a sufficient number of codes in view, even in relation to track switches and changes to the code tape. Precise positioning is guaranteed at all times.

The reading window of the PXV has been enlarged to approx. 120 x 80mm, meaning that the Data Matrix code tape is always located within the sending range. Mounting and commissioning are easier, and plant availability is further improved. The reading window has an increased depth of focus range, allowing it to capture even more codes simultaneously and guarantees position detection through multiple redundancy.

The PXV requires only a 2-D camera, ensuring that irritation relating to track switches is excluded. To prevent this, the cameras in the two-camera systems can receive the relevant differing position signals in these areas.

**Tel: 0161 633 6431**

## Wireless Bluetooth data logger

**T&D Corporation**, a Japanese market leader for wireless data loggers, has introduced the new TR4 series for temperature monitoring. Operating with low energy Bluetooth 4.0 and without the need for pre-registration, loggers within the communication range are instantly detected and automatically refreshed by mobile devices. Records can be monitored or stored in the free of charge, cloud-based T&D WebStorage Service.

The TR4 series comprises three models. Each model provides different sensor types and measurement ranges to serve diverse application requirements: the TR41 covers temperature measurements from -40 to 80°C (waterproof, internal sensor); the TR42 measures from -60 to 155°C (waterproof, external sensor), while

the TR45 for industrial use is available for thermocouple types K, J, T, S covering -199 to 1700°C or for types Pt 100/Pt 1000 with a range of between -199 and 600°C.

For easy monitoring, the automatically collected data is displayed in neatly arranged graphs by the ThermoRec app or can be uploaded and shared with the ThermoStorage app.

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