



Benchtop meter series

The new Sensorex benchtop meter series from **Sensorex** is said to offer researchers a more complete sensing system with its pH/ORP/ conductivity meters and kits.

The new PM1000 and CM1000 meters pair with Sensorex's laboratory sensors, which include basic, advanced and research-grade options to maximise measurement accuracy and sensor lifetime in industrial research and quality control laboratories. Configurable kits simplify

the product selection process.

The Sensorex meters provide accurate, reliable measurement. An intuitive interface guides users through set up, calibration and measurement, with easy-to-read prompts and with results displayed on its integrated screen.

A small footprint saves valuable desktop space, and the meters can be powered either by the included AC adapter or with AA batteries to eliminate cords.

Tel: +1714 895 4344

Flow meters

Litre Meter now distributes the Lake Monitors range of Variable Area (VA) and paddle wheel flow meters from its sister company in the US and says they have been used in industrial applications around the world. Lubrication and cooling system measurement are the most popular, closely followed by pneumatic and



hydraulic systems and even gas and chemical applications.

For the VA meters there is an online configurator at the Lake Monitor website. Pressure ratings are up to 414 bar depending on materials and they can be installed in any orientation. There are dedicated versions for visual monitoring using a clear body - the ClearView - and for high temperatures (to 315°C). Flow alarm and analogue output are options, too.

Tel: 01296 670200

Test rig technology

To analyse the long term performance and reliability of hard working valves and pumps, Bifold Group has adopted radio frequency based torque transducers from **Sensor Technology** for two of its specialist test rigs.

TorqSense transducers lend themselves to test rig use because they are non-contact measuring devices. Attached to the surface of the transducer shaft are two Surface Acoustic Wave (SAW) devices. When torque is applied to the shaft, the



SAWs react to the applied strain and change their output. The SAW devices are interrogated wirelessly using an RF couple, which passes the SAW data to and from the electronics inside the body of the transducer.

Tel: 01869 238400

Improved 1kHz output

The New Dimetix D-Series laser sensor from **Sensors UK** is said to offer users a solution for accurate and fast measurements of distances for factory automation, warehousing and positioning applications.

The range of lasers now offers an output rate of 1kHz with a $\pm 0.15\text{mm}$ repeatability on natural surfaces to a range of 100m. This can be extended to 500m with the use of a target plate.

Further advances for the latest Dimetix D-Series lasers include:



reduced power requirements, more compact size and New Interfaces including USB and choice of Industrial Ethernet.

Tel: 01727 861110

Hygienic ultrasonic sensors

Ultrasonic durable sensors from **EGE's** AGVUH series for a 150-1500mm detection range are said to fulfil the most demanding hygiene requirements.

Featuring IP69K ingress protection, they allow for easy cleaning with high-pressure and steam-jet cleaners, ensuring optimum hygiene in food and beverage industry applications as well as medical and pharmaceutical production.

The sensors can be used for fill-



level detection, distance measurement, presence verification, or detecting and counting moving objects. They come in a rugged, fully encapsulated, gap-free stainless-steel housing. Depending on available installation space, two sizes can be selected: either D30 or the especially compact D18, with only 30cm total length including the hygienic cable fitting.

Integrated temperature compensation enables high measuring precision in the -20 to +70°C range. A protective circuit ensures short-circuit strength and protection against polarity reversal. Versions with an analogue output (4.20 mA) are supplied with pre-set response curves, while models with a switch output allow for a quick and easy adjustment of the desired switching points via teach-in.

Tel: +49-43 46/41 58-0

Sky's no limit

Vaisala's pressure and humidity sensors will soon be on their way to space again as NASA is preparing for the next mission to Mars timed for a launch in 2020.

Finnish Meteorological Institute (FMI) is among the partners providing measurement equipment for the new Mars 2020 Rover. The pressure and humidity measurement devices are based on Vaisala's sensor technology and are similar to the ones already delivered to Mars on the first Curiosity Rover. In addition, Mars 2020 Rover will carry Vaisala's newer and more advanced pressure and humidity sensor heads.

The Mars 2020 mission is part of NASA's Mars Exploration Program and it aims to gather more knowledge on Martian atmosphere and other environmental conditions. The Mars 2020 Rover will be

equipped with Vaisala BAROCAP and HUMICAP pressure and humidity sensors.

The sensors are part of instrumentation designed by the Finnish Meteorological Institute (FMI), and they will be used to gather accurate readings of pressure and humidity in the extreme environmental conditions of the Martian atmosphere.

Tel: 0121 683 5620

