

## SENSORS &amp; TRANSDUCERS



## Hooked on enhancements: helicopter load sensor keeps getting smarter

HeliNav LoadMaster, the intelligent wireless helicopter load sensor has been upgraded with a string of new capabilities. Inclinometers have been added so that it can be used with three-point fixing for large loads; a new receiver wirelessly collects live load data for analysis, interpretation and reporting, and a new display gives real-time information on operational variables to aid calculation of flight and operational profiles. The HeliNav LoadMaster sensor is autonomous, using a wireless communications' link to its own display and computer in the cockpit. This means it does not require additional certification of the electrical systems and can be swapped from one aircraft to another in seconds. HeliNav LoadMaster can be used in conjunction with other electronic systems, such as navigation and tracking, so will automatically produce comprehensive operational performance reports.

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## flowplus16 pressure sensor from Intertronics for critical dosing and dispensing

The compact and innovative flowplus16 pressure sensor offers high accuracy monitoring of material flow for critical dosing and dispensing applications. Accurate inline pressure sensing can deliver important quality assurance in a wide range of automatic processes; for example, in medical, pharmaceutical and semiconductor manufacturing, analytical and laboratory environments, and the wider areas of process control. flowplus16 detects irregularities in flow, caused by air bubbles or blockages, enabling remedial action. The flowplus16 is maintenance free, featuring an inert fluoropolymer internal coating providing a smooth and consistent fluid pathway with no internal dead space. It is easily integrated into existing control systems thanks to its standard luer lock fittings and internal microchip which provides a standardised 0-10V digital output signal for temperature-compensated readings without complicated calibration. flowplus16 handles flows of up to 100ml/min at pressures of 0-16 bar and between 15°C to 45°C.

For further information please see <http://www.intertronics.co.uk/flowplus> or visit their blog at [www.adhere.uk.com](http://www.adhere.uk.com) – also see [www.youtube.com/intertronicsadhere](http://www.youtube.com/intertronicsadhere)



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## Drop-in Replacement for Strantrol® pH and ORP Probes



Sensorex's S420 probes offer an alternative to Strantrol® pH and ORP probes used in swimming pool, industrial, municipal and potable water applications. The S420 series was designed expressly as a direct replacement for existing Strantrol pH and ORP probes. Constructed of durable CPVC, S420 probes offer improved chemical resistance. Additionally, Sensorex uses a higher volume of its proprietary polymer sensor reference gel for longer service life. Sensorex's advanced sensor technology delivers accurate measurement over a range of 0-14 pH or -1000-1000mV for ORP. The probes are suited to a variety of applications with a temperature range of 0-50°C and a pressure maximum of 100psig. The threaded ½" NPT connection enables easy in line installation or use with existing Strantrol flow cells without modification. Advanced signal shielding reduces noise for more accurate communication with process control systems. Both the pH and ORP probes are available with the option of 30 inch or 10 foot cable lengths for quick integration into existing systems.

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## FLOW, LEVEL &amp; CONTROL

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## Magnetrol® launches new website and expands to accommodate growth

Magnetrol®; International, a leading global manufacturer of level and flow process control instrumentation, is proud to announce that the company has launched its new, redesigned corporate website. Magnetrol.com has a brand new look! After almost a year in

development, MAGNETROL is excited and proud to announce the launch of its new corporate website. Users will enjoy the improved functionality and simplified navigation. The streamlined product offering enables the company to focus to a greater degree on customer's and representative's needs. MAGNETROL is dedicated to providing the highest level of service. This new site enables the company to more efficiently promote new products and initiatives, as well as quickly direct traffic to the content they are looking for. Keep checking Magnetrol.com for the additional enhancements and improvements that are on the way.

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## Mechanical Speed Adjustment for Hydra-Cell Metering Pumps

Wanner International has introduced a range of mechanical speed variators for manually adjusting the rotational speeds and output flows of its Hydra-Cell metering pumps. These pumps are used in oil and gas production for injecting chemicals such as acids and bases, amine gas sweeteners, oxygen scavengers, polymers and proprietary chemicals into process streams. Because Hydra-Cell pumps are true positive displacement pumps, flow rate is directly proportionate to input shaft rpm and virtually independent of system discharge pressures. Very precise and repeatable, infinite adjustment of shaft speed is achieved from almost zero rpm, through a simple manual adjust hand wheel. It transmits its highest torque from speed zero, is adjustable in operation and at rest and exhibits linear setting characteristics. The Wanner mechanical speed variator is ideal for use in explosive environments and is ATEX certified for zones 1 and 21, completely removing the need for complex and costly external ATEX control.



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## Litre Meter supplies ultra high purity sierra meters

Custom flow meter manufacturer and distributor Litre Meter has shipped a range of Sierra Flat Trak 780S-UHP Ultra High Purity units to a leading specialty gas supplier. Specialty gases can range from 99.995 per cent to 99.99998 per cent purity depending on the gas type. To mix gases with this level of purity it is essential to use a robust electro-polished meter capable of high accuracy. The Flat Trak-UHP instruments are designed to measure the flow of gases at pressures of up to 8 bar. The meters were selected because they are highly stable and deliver a measurement accuracy of +/- 1 per cent of reading plus 0.5 per cent of full scale and a repeatability of +/- 0.2 per cent of full scale. The 780S-UHP is constructed with 316L electro-polished steel tubing in a choice of 7-10 Ra (UHP) or 20-25 Ra (HP) interior in pipe sizes from ½ inch up to 12 inches which are offered with Butt weld connections and a VCR probe-connection fitting.

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