CombiTac connector system

Multi-Contact's versatile CombiTac connector system is now available with plastic housings, making it suitable for industrial environments and other applications where resistance to aggressive chemical agents is required.

The connectors can be fitted with any combination of high voltage, high current, data, fibre optic, power, thermocouple and coaxial contacts, and even pneumatic and fluid connectors.

Available in four sizes, with top or side M32 cable entry, the plastic connectors can be panel mounted or built into DIN coupler hoods.

As the rugged housing is made of antistatic thermoplastic material, there is no need for additional earthing. Environmental protection to IP65 is provided when mated, and operating temperatures are from -40degC to + 90degC.

An interactive configuration tool on Multi-Contact's web site enables engineers to build modular assemblies online, explore the final product, review assembly dimensions and request a quotation.

Multi-Contact (UK) Ltd
▶ **01908 265544**
▶**www.multi-contact.com** enter 814

UVT-LED Monitor from Sensorex

Sensorex is now the sole supplier of the UVT-LED Transmittance Monitor, formerly known as the PearlSense T254. The UVT-LED is the first instrument of its kind to use highly efficient UV-C LED technology. The compact monitor delivers fast, accurate transmittance readings in the field, water treatment facilities or industrial settings.

Transmittance measurement with the UVT-LED ensures proper UV dosing and efficient operation. The use of mercury free UV-C LED bulbs results in a compact design, easily used as either a handheld portable meter or an in-process instrument. The LED light source is ready for instant operation with zero warm up time. Capable of battery and solar-powered operation, the UVT-LED offers long lamp life with little maintenance and low operating costs.

Simple to operate, with a clear backlit LED display, the UVT-LED takes automatic measurements every 60 seconds.

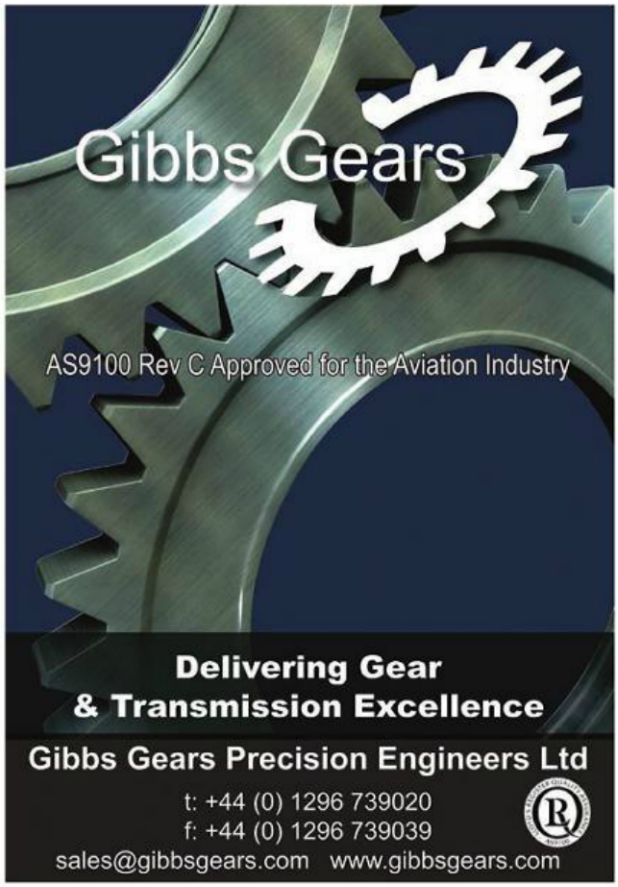
Sensorex ▶ **+1 714-895-4344** ▶ **www.sensorex.com** enter 815

Android App Now Available for Sensorex SAM-1™ Smart Aqua Meter

Sensorex's SAM-1™ Smart Aqua Meter is now globally compatible with Android devices. Already popular with Apple iPhone and iPad users for laboratory and field monitoring, the SAM-1 measures and records pH, ORP, Conductivity and temperature values. With the release of the Android app, Android smartphone and tablet users (Android version 4.0 and newer) can now use this powerful, portable water quality meter for accurate analytical measurements in environmental, educational, and industrial applications.

The SAM-1 Smart Aqua Meter transforms smartphones or tablets into convenient and powerful pH, ORP, or Conductivity/TDS meters with integral temperature measurement. It plugs into the headphone jack of virtually any smartphone or tablet, and easily connects to Sensorex smart analytical sensors. The free SAM-1 App instantly recognizes the smart sensor and provides an easy-to-use interface for taking measurements and managing data.

Sensorex ▶ **+1 714-895-4344** ▶ **www.sensorex.com** enter 816



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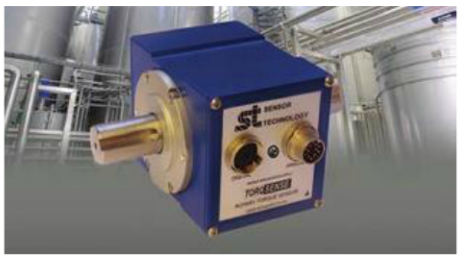
Chemical engineers talk sense about mixer efficiencies



Manchester University's School of Chemical Engineering is leading energy efficiency developments in the process industries by incorporating TorqSense transducers into a test rig for analysing losses in in-line mixers. The energy consumption involved in in-tank mixing is well understood, but with in-line rotor-stator mixers the flow is often controlled independently of the rotor speed and collecting sufficient data to accurately model the process requires a large number of experiments. Now researcher Dr Mike Cooke has developed a method for obtaining the necessary information using torque measurement.

Dr Cooke explains that high shear rotor-stator mixers are widely used in process industries, providing a delivery of energy, power and shear to accelerate physical processes such as mixing, dissolution, emulsification and deagglomeration. "To scale-up from laboratory to industrial we need to understand the relationship between rotor speed, flow rate and the energy dissipated," he says. "The first step is to link the energy dissipation rate to desired process results."

Manchester University is a major user of TorqSense, having many installed on permanent teaching aids and various research rigs. "The students like the readout displays, which look no more complicated that a car's dashboard," says Dr Cooke. "For us researchers, the ease with which they can be mounted and removed is a God-send in experiments where you are constantly reconfiguring the rig."

Sensor Technology Ltd ▶ **01295 730746** ▶ **www.sensors.co.uk**

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