



What's **New**

Offshore Technology Conference

Density Sensors Combine Accuracy and Compact Design



The L-Dens 427 T Ex online density meter is accurate, compact, easy to install, and cost-efficient. The L-Dens 427 family of density sensors

has an accuracy of 1×10^{-4} g/cm³. This model, which accurately measures density and temperature and automatically calculates temperature-corrected density, API gravity, and a variety of concentrations based on density, is an explosionproof version suitable for aggressive environments. The Modbus, HART, and 4–20-mA outputs simplify connection to any flow computer or programmable logic controller (PLC). Standard process connections include Swagelok, DIN, and ANSI connections, and custom-made connections are available by request.

Anton Paar Booth 8623
www.anton-paar.com

Actuator can Weather Corrosive and Hazardous Environments



The Series 92 electric actuator's rugged construction, proven design, and customizable options make the device suitable for a variety of oil and gas applications, such as pipeline transmission and wellhead control. It features a die-cast aluminum alloy, thermally bonded powdercoat, Type 4X, 7 and 9 enclosure that is bolted together in two sections by eight M8 hex-head cap screws with fitted O-rings. The actua-

tor has a permanently lubricated gear train and hardened-steel spur gears. Two end-of-travel limit switches are set mechanically via adjustable cams to open and closed positions. Factory-installed accessories such as 4–20-mA positioners, single and double extra limit switches, and two-wire control relays are available.

Asahi/America, Inc. Booth 8523
www.asahi-america.com

Vibrator Provides Efficient Power and Material Separation

The Martin Electric Screen Vibrator provides 7,700 lb of centrifugal force to sort or separate material. The explosion-proof model has UL, cUL, and ATEX certification for use in hazardous locations around the world, and the high-strength cast aluminum cases are IP66-7 dust-tight and watertight. The dual-voltage units can be used in locations with different electrical power supply voltages. The vibrator features simple installation — bolt it in, wire it up, and turn it on — and low maintenance, requiring only periodic lubrication of the long-life cylinder roller bearings.

Martin Engineering Booth 4829
www.martin-eng.com

Hydraulic Hose Apps Optimize Performance

Two new hydraulic applications optimize system performance and reduce downtime by monitoring hose service life and identifying replacement hose specifications. Gates Sentry IQ Service is a predictive maintenance app that monitors the pressure and temperature of a hydraulic assembly to gauge remaining hose life. The app is designed for equipment and processes in applications where unexpected hose failures can cause expensive downtime, compromise safety, and require costly repair and clean-up. It is suited for both new equipment designs and aftermarket oil production applications. Sentry ID Service

is a high-radio-frequency tagging system that tracks specific hydraulic hose assemblies operating worldwide, allowing maintenance technicians to electronically read and identify hose assembly specifications such as hose type, size, length, end fittings, and orientation. A replacement hose can easily be fabricated at the installation or ordered from a Gates distributor, thereby minimizing downtime of the oil production equipment.

Gates Booth 9208
www.gates.com/sentry

System Performs *in situ* Calibration for Flare Flowmeters



The VeriCal *in situ* calibration verification system for gas and flare flowmeters enables technicians to confirm flow measurement accuracy in minutes — saving time and reducing operating costs. The system allows for the verification of flowmeter calibration without removing the meter from the pipe or process. It is suitable for flare gas applications in offshore oil and gas production and refining, as well as other applications where periodic validation of flowmeter calibration is required by the process or environmental regulations. The system combines a specially manufactured and plumbed air/gas flow element with electronics that feed and measure a precise flow of gas from a nitrogen source. During flowmeter testing, the nitrogen is fed through the meter's flow element and measured against five benchmark measurement points across the meter's range. The *in situ* flowmeter test data are then compared to original laboratory calibration and

installation benchmark test data for the meter. The verification also provides a secondary benefit of cleaning the flow element sensors, which helps ensure performance and reduces the need for routine maintenance.

Fluid Components International
www.fluidcomponents.com
 Booth 7702

Portable, Lightweight PC Endures Industrial Environments



The durable, lightweight 4823CX Series PC can withstand extreme temperatures in severe industrial and plant environments. It is equipped with a 15-in. LED-backlit LCD with a glass-on-glass resistive touch screen. It features a low-power Intel Atom processor, optional Bluetooth, GPS, speakers, camera, microphone, WiFi antenna, battery, and charger. Battery options include either a 115/230-V AC version or a 24-V DC version.

Daisy Data Displays, Inc.

www.d3inc.net

Booth 1363

Course Teaches Safe Hydrocarbon Process Engineering

PS-4 is a five-day process safety engineering course for upstream and midstream surface facilities engineers. It covers topics such as: historical incident and problem areas; risk analysis basics; process hazard analysis techniques; layers of protection; inherently safer design; hazards associated with process fluids; leakage and dispersion of hydrocarbon releases; combustion behavior of hydrocarbons; sources of ignition; hazards associated with

specific plant systems; and plant layout and equipment spacing. The course is being offered to the public in 2011 in London, Houston, Perth, and Dubai. In addition, PS-4 can be delivered

onsite exclusively for one company's employees.

John M. Campbell & Co.
www.jmcampbell.com/PS4
 Booth 8814

think uptime



FD Series flame detectors from Honeywell Analytics add extra precision to your safety system, performing with sensitive accuracy yet allowing fewer false alarms. FD Series detectors put a safety umbrella over your entire plant while maximizing plant productivity.

False alarms can be costly, disrupting operations or leading to shutdowns that adversely impact your company's bottom line. Turn to FD Series flame detectors from Honeywell Analytics for reliable, fast speed of response to all types of fires—along with superior false alarm immunity. The FD Series family includes Ultraviolet, Ultraviolet/Infrared and Triple Infrared models, a range of solutions to serve all budgets, from the most demanding standalone to multi-point networkable projects. Exceptionally simple to use and install, FD Series flame detectors require no additional junction box, operate on low power and offer many advantageous features (depending on model) such as a wider field of view and swivel-mounting for advantageous positioning. If you're thinking more uptime is a better way to go, then go with the experts in gas detection, Honeywell Analytics.

Honeywell

To learn more, call **1-800-538-0363**,
 or visit **www.honeywellanalytics.com**

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