

Gas Detectors/Analyzers

On-line Moisture Analysis for PV Process Gases



The miniature M-i™ is the newest edition to the MEECO line of moisture analyzers. Designed for PV process gas monitoring and other fixed gas applications, it measures in the range of 500 ppb (parts-per-billion) to 1000 ppm (parts-per million). The M-i is based on MEECO's electrolytic technology and provides continuous, no-drift, on-line moisture analysis **MEECO** www.meeco.com 215-343-6600

Trace Moisture Analyzer

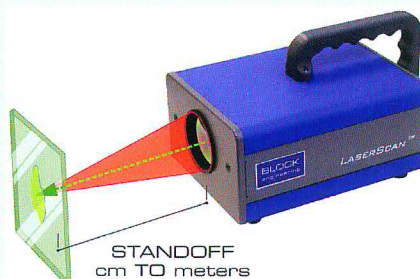
The Tiger Optics ALOHA™ trace moisture



analyzer is designed exclusively for high brightness LEDs. Can measure very low ppb level moisture in ammonia and inerts. Features: Tiger Optics' patented Cavity Ring-Down Spectroscopy-based trace gas sensor; compact footprint; freedom from periodic sensor maintenance, span calibration purifier replacement and pump rebuilds. **Tiger Optics** www.tigeroptics.com 215-343-6600

QCL Mid-IR Spectrometers

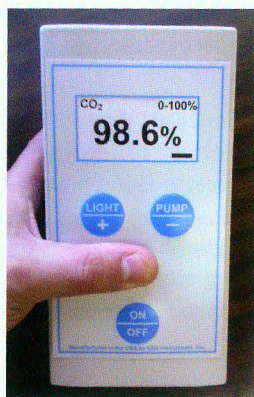
Block Engineering has announced the launch of a family of next-generation spectrometers based on widely tunable quantum cascade lasers (QCLs). The three products introduced comprise: Laser-Scan™, which can analyze surface chemistries from a distance of 6 inches to 2 feet; LaserScope™, which is a high-performance



IR microscope; and LaserTune™, which is a tunable QCL source used by researchers. **Block Engineering** www.blockeng.com 508-251-3100

CO₂ Analyzer

The CEA newly expanded GD-888 Series of infrared carbon dioxide gas analyzers for measuring full ranges of carbon dioxide up to 1% in 10 ppm increments, 10%, or 100% volume are now available in either portable or wall mounted NEMA 4X enclosures.



Optional electrochemical oxygen and toxic gas sensors can also be added. The GD-888 weighs around three pounds and includes an internal sample pump, backlit LCD digital

display, adjustable alarms, and can be configured with 0-1 VDC or 4-20 mA outputs, contact closure relay, and rechargeable batteries that allow for portable use or continuously on AC power with the included battery charger. **CEA Instruments** www.ceainstr@aol.com 201-967-5660

Handheld Leak Detector

SniffIT X1® is a handheld, battery-driven, leak detector from Nolek designed for detecting both helium and hydrogen. SniffIT weighs less than 10 ounces. The smallest detectable levels of helium and hydrogen is in the range of 2×10^{-6} mbar l/s. SniffIT technology sensor never gets saturated and hence the instrument has no variable costs as most alternatives. Features instantaneous reaction time and



no start up time. **Nolek** www.nolek.com 781-585-5606

Wireless Indoor Air Quality Monitor

PPM Technology's IAQ monitoring system, the Wireless IAQ Profile PPMonitor, enables simple, and flexible management of the indoor air environment. The PPMonitor can continuously detect, measure and record a number of parameters, including temperature, humidity, formaldehyde, nitrogen dioxide, carbon monoxide, carbon dioxide, sulphur dioxide, ozone, ammonia and TVOCs. Real-time functions enable immediate warnings of the presence of harmful gases. **PPM Technology** www.ppm-technology.com 44 (0) 1286 676 999



Hydrocarbon Measurement

SERVOPRO Chroma from Servomex is designed for cryogenic ASU operators to measure hydrocarbons present in ambient air. Uses two separate plasma emission detectors, each with separate valve and column channels, to individually and simultaneously measure CH₄ and non-methane hydrocarbons (NMHC). Depending on the results of an ambient air test to determine the types and level of hydrocarbons present, plant operators must decide whether to measure for total hydrocarbons measurement (THC), methane and NMHC, or measure for individual hydrocarbons including methane, acetylene, propane, propylene, ethane and ethylene. Chroma's Plasma technology requires only an argon or helium carrier gas to function, and does not require the constant flowing fuel gas required by FID detection techniques. **Servomex** www.servomex.com +31 (0) 79 330 1581