



Product Digest

this month's topic **Instrumentation**

Two-Parameter Transmitter Streamlines Analytical Sensing



The Liquiline CM442 is a four-wire, two-parameter transmitter that is designed to simplify analytical sensing applications. Using one unit instead of two conventional single-parameter transmitters allows plants to reduce costs related to the purchase, installation and maintenance of the system and simplify the measurement of process variables. The framework accepts data from any two of the company's Memosens sensors, each with true hot plug-and-play capabilities via a digital interface link — which allows sensors to be easily removed for replacement or calibration and diagnostic purposes, then replaced with immediate sensor recognition. The system measures any combination of parameters, including turbidity and suspended solids, nitrate, dissolved oxygen, pH/ORP, chlorine, concentration, and conductivity. These transmitters can be upgraded to include additional sensors and output or communication options such as Profibus, Foundation Fieldbus or Ethernet.

Endress+Hauser
www.us.endress.com

Current Probes Provide Measurement Flexibility

The iFlex flexible current probes expand the measurement range of select Fluke meters to 2,500 A a.c. The large coil allows users to reach around large (up to 6 in. dia.) or

awkwardly shaped conductors, while the small (0.3 in.) profile allows the coil to reach between tightly packed cables in crowded spaces. A 6-ft cord makes it easier to see readings at a distance from the conductor. The iFlex probes connect directly to the firm's current meters, displaying current measurements without the need for error-prone scaling factors. In addition to a.c. current measurement, they also feature frequency, in-rush, and minimum/maximum/average functions. These probes are available in 10-in. and 18-in. sizes.

Fluke Corp.
www.fluke.com

Fieldbus Interface Extends the Capabilities of Plant Instruments



Working with Fieldbus, Inc., this company has added a Fieldbus Foundation interface to its Linkbus remote instrument monitoring system (Linkbus RIMS), which allows the firm's process analyzers and instruments to be seamlessly integrated with a wide range of plant control systems. It also provides a data bridge so that older analyzers that use proprietary communications protocols can be integrated into modern Fieldbus Foundation networks. The ability to gain easy, remote access to analyzer information and trend data allows

for more-efficient maintenance and troubleshooting.

Ametek Process Instruments
www.ametek.com

Process-Visualization System is Useful for Small Installations

Simatic WinCC V7 TeleControl is a process-visualization system that is well-suited for small installations, especially in water, wastewater, and oil-and-gas applications. The TeleControl software uses a wide-area network (WAN) to flexibly integrate remote terminal units equipped with Simatic automation components into the installation's central process-visualization system. The system supports the three main telecontrol protocols: IEC 60870-5 101/104, DNP V3 (serial or TCP/IP), and Sinaut ST7 (serial or TCP/IP). A uniform user interface for local and remote processes reduces the risk of errors.

Siemens Industry Automation Div.
www.siemens.com/simatic-wincc

Gas-Blending Unit Provides Versatile Control for Component Additions



AutoBlend is a computer-controlled, multichannel gas-blending system that uses permeation tubes to add multiple trace components to the flowing gas stream, in concentrations from hundreds of parts per million down to a few parts per trillion. The device features six independently controlled permeation channels, each

of which can contain up to eight compounds. Component concentrations can be varied independently, making the AutoBlend well-suited for conducting statistically designed test programs. Mixtures can be supplied dry or humidified and can be delivered at up to 20 psig pressure.

KIN-TEK Laboratories

www.kin-tek.com

Testing Instrument is Designed for Gas Separation Studies



Model PSA-1000, the new dual-bed pressure swing adsorption (PSA) testing system, is designed for materials and process evaluations in a variety of gas-separation research studies. It is fully integrated and automated, and the computer-controlled protocols provide testing capability over wide ranges of gas flowrates, temperatures, and pressures (including vacuum). The instrumentation design and materials of construction permit the evaluation of all types of gases and adsorbate materials for chemical, petrochemical, gas-purification and energy-related applications in academic, industrial, and government R&D laboratory settings. The PSA system handles testing of activated carbons, zeolites, metal organic frameworks (MOFs), and molecular sieves, and

is especially effective for mixed-bed testing and the study of adsorbate poisoning and critical time-cycling. With adsorbate bed volumes up to 1,200 cm³, gas flowrates up to

25 L/min, and pressures up to 1,200 psia, the system can be customized to meet specific requirements.

L&C Science and Technology

www.landscience.com

think simplicity



The Sensepoint XCD hazardous gas monitor from Honeywell Analytics conveys the safety status of your site at a glance through its tri-color traffic-light display. XCD's flexible advantages and ease of use increase safety and save your company money. It also saves you from worry, putting you in an easy chair.

Sensepoint XCD offers the easiest and fastest way to get ROI and added value from a gas monitoring system. It installs simply and works out of the box, as a standalone system or networkable device. Advantages include many flexible product features such as one-man, non-intrusive operation, highly-configurable sensors and electronic board, simplified calibration, and versatile magnetic switches that adjust to scale, range, relay operation, alarm set point and other requirements. Bottom line is, XCD respects your bottom line—while upgrading your company's safety system with state-of-the-art protection.

Honeywell

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

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