



Product Digest

this month's topic **Instrumentation**

Oxygen Analyzer Withstands Harsh Environments



With a robust design that can tolerate high temperatures and harsh environments, the Endura AZ25 oxygen analyzer is suitable for applications at temperatures ranging from 600°C to 1,400°C (1,112°F to 2,552°F).

A unique cell processing technique that bonds the multilayered platinum electrode to the zirconia enables the analyzer to be used in arduous applications subject to sulfurous and reducing atmospheres. A protective sheath material offers improved resistance to thermal stresses and shocks, as well as to corrosive atmospheres. The zirconium oxide measuring sensor is positioned at the tip of the probe for more accurate and immediate oxygen readings, which is useful for optimizing combustion-control processes and furnace atmospheres.

ABB

www.abb.com

Copper Analyzer Effectively Monitors Effluent

Because copper poses a major health risk when it enters the drinking water supply, the U.S. Environmental Protection Agency (EPA) regulates its discharge. Process and plant engineers responsible for monitoring wastewater can benefit from this copper analyzer system. Consisting of the T80 universal transmitter and S80 Intelligent pION sensor, the system provides accurate and reliable measurements of copper in effluent leaving a plant. The sensor's cupric ion electrode measures



the activity of free copper ions in solution at concentrations from 1 ppb to 6,300 ppm and over a wide temperature range from 0°C to 80°C. The system is appropriate for installations at pipe tees, flow cells, or through tank walls. Additional electrode cartridges are available to measure other specific ions, pH, oxidation-reduction potential (ORP), and dissolved oxygen.

Electro-Chemical Devices

www.ecdi.com

Temperature Sensors Have a Modular Design



The SITRANS TS500 family of temperature sensors is appropriate for universal use in the chemical process industries. The resistance temperature detectors (RTDs) and thermocouples (TCs) have a modular design, and are offered in a large range of sizes, materials, sensors, and transmitters. Users

can select from a variety of process connections, connection heads, sensor types, transmitters, and displays to configure custom process solutions. The family of products supports multiple communications standards, and can be easily integrated into the operating tools of process control systems.

Siemens AG

www.siemens.com

Handheld Calibrator Delivers Lab-Quality Accuracy



The HPC40 Series handheld calibrators are designed for process control applications, such as verification or calibration of pressure gages, transducers, transmitters, pressure switches, and safety valves. It provides consistent, lab-quality-accuracy measurement of pressure, current, voltage, and temperature. At pressures ranging from vacuum to 15,000 psi, it has an accuracy of 0.035% of reading for all ranges. This calibrator can replace several gages or calibrators to simplify workflows. A large, full-color display and an intuitive user interface make it easy to use, allowing tasks to be performed quickly and efficiently.

AMETEK Crystal Engineering

www.crystalengineering.net