



this month's topic **Fluids Handling**

Coriolis Meter Provides Meter-Verification Testing



The Micro Motion F-Series compact Coriolis meters are now available with additional digital protocols and Smart Meter Verification, an easy-to-use tool that monitors the structural and measurement integrity of the meter. These new capabilities are enabled by connectivity to the enhanced core processor and 2400S transmitter, both powered by Micro Motion MVD (multivariable digital) processing technology, which provides faster meter-response time. The 2400S transmitter option also enables DeviceNet and Profibus-DP communication protocols in an extremely compact package. The Micro Motion MVD technology uses advanced algorithms that provide meter stability and consistent performance in the face of challenging operating conditions. **Emerson Process Management**
www.emersonprocess.com

Durable Meters Monitor Water and Coolant Flow



These inline vortex-shedding flow-meters have no moving parts to clog or wear out, ensuring life-long reliability and minimizing maintenance

requirements. They are suitable for monitoring water, water/glycol coolant, and other low-viscosity fluids, and their no-moving-parts design enables them to monitor media containing small particulates without compromising accuracy. They can handle flows of 4–200 gal/min, with occasional over-ranging up to 125% of capacity without damaging the meter, and have 4–20-mA flowrate transmitters. The meters are designed to withstand working pressures of 10–300 psig and to operate efficiently at fluid and ambient temperatures from 35°F to 150°F. They are CSA- and CE-certified, and are built with a stainless steel or bronze body, polyvinylidene fluoride (PVDF) sensors, and fluoroelastomer seals.

**Parker Hannifin Corp.,
Parker Fluid Control Div.**
www.parker.com

Metering Pump has Enhanced Controls



The integral variable-frequency drive (VFD) motor controls of this metering pump help to improve the accuracy and repeatability of dosing, sampling, and metering. The progressing-cavity design creates smooth flow that is free from pulsations and variations in velocity and volume, helping to prevent material waste and mixture imbalance. The newest models are available with capacities

from 0.1 to 400 gal/h and operating pressures to 300 psi. All close-coupled pumps are now constructed from stainless steel for improved corrosion protection. The pumps are capable of handling a wide variety of fluids, from clean, clear liquids to abrasive, corrosive fluids, solids in suspension, and viscous materials.

Moyno, Inc.
www.moyno.com

Pumps Provide Drift-Free Fluid Control



These ceramic pumps feature a unique valveless rotating/reciprocating piston design that eliminates the need for check valves, which can

clog, leak, or fail over time. The result is maintenance-free, drift-free fluid control that will hold an accuracy of $\pm 1\%$ or better over millions of cycles. In addition, the pumps' process parameters can be easily changed — flowrate can be infinitely controlled either mechanically or electronically via standard industrial-control protocols. Flow control is viscosity-independent for added flowrate stability. Models are available to dispense as little as 5 μL per stroke up to 4 L/min for continuous metering. The pumps are suitable for routine metering of monomers, catalysts, food additives, acids, extraction solvents, alternative fuels, water treatment chemicals, and even viscous fluids and slurries.

Fluid Metering, Inc.
www.fmpump.com