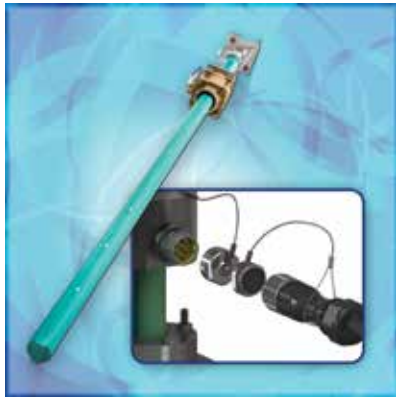




this month's topic **Flowmeters**

**Quick-Connect Cable Simplifies Flowmeter Installation**



The FPI Mag electromagnetic flowmeter is now available with quick-connect cabling that allows rapid setup and easy detachment. An efficient hot-tap installation method eliminates the need for extra labor, heavy equipment, and line shutdown during installation. The cable complies with the International Electrotechnical Commission's (IEC) IP68 standard, and its durable connection is resistant to dust and watertight to a depth of 3 ft. The FPI Mag flowmeter features an advanced multi-electrode sensor that compensates for variable flow profiles, including swirl and turbulent conditions. The electrodes, which are placed across the entire sensor body, continuously measure and report the average flowrate across the full diameter of the pipe.

**McCrometer**  
[www.mccrometer.com](http://www.mccrometer.com)

**Mass Flow Controllers Handle High Flowrates**

The GF100 Series of thermal mass flowmeters and mass flow controllers (MFCs) has been expanded to include three new products with higher flow capacities, improved accuracies, and faster response times for gas flow control in semiconductor and LED manufacturing processes. The GF101,

GF121, and GF126 MFCs provide flowrates up to 300 std. L/min and are designed for applications with high-flow purge, and epitaxial and blanket gas control. Each has a compact footprint and low power draw that enables the design of smaller, more-efficient tools. The devices also feature multiple digital and analog I/O interface options to support the broadest range of communication protocols. The readout screens on the MFCs' displays can be rotated 180 deg. for easier viewing and installation.

**Brooks Instrument**  
[www.brooksinstrument.com](http://www.brooksinstrument.com)

**Pitot Tube Measures Stack Gas Flowrates**



The StackFlowMaster gas metering system uses a Torbar averaging pitot tube flowmeter to measure the flowrate of stack gas. It features a new display and control interface that performs zero and span checks without manual intervention or any additional equipment. The system creates a very low pressure loss, and can automatically purge the flowmeter to prevent the buildup of solid contamination that may affect the flow readings. The StackFlowMaster consists of the FPD581 metering probe and the FPD585 interface unit. The FPD581 metering probe has an optional resistance temperature detector (RTD), a five-valve manifold, a multivariable transmitter, and purging ports. The FPD585 is a new interface unit that offers manual/automatic purg-

ing; manual/automatic zero and span checks; and data logging and storage via a secure-digital (SD) card interface. The Torbar averaging pitot tube is available with a flanged stack connection and affords simple installation, as it does not require electronics in the stack.

**ABB Measurement Products**  
[www.abb.com/measurement](http://www.abb.com/measurement)

**Flowmeter Can Be Calibrated to Measure Any Process Gas**



The ST100 flowmeter features a wide range of communication options with 4–20-mA analog, frequency/pulse, and alarm relays, as well as HART, Foundation Fieldbus, Modbus, and Profibus. The thermal mass flowmeter is designed with a plug-in card that can be replaced by technicians in the field to adapt the device to a plant's changing network communication needs. The meter is suitable for water- and wastewater-treatment plant applications, such as monitoring aeration air, digester gas, and disinfection gases. It features a graphical, multivariable, backlit LCD display with a sophisticated readout that continuously displays all process measurements and alarm status. The flowmeter measures gas mass flowrate, total flow, temperature, and pressure, depending on the model. An onboard data logger has a removable 2-GB micro-SD memory card that is capable of storing 21 million readings.

**Fluid Components International**  
[www.fluidcomponents.com](http://www.fluidcomponents.com)