FCI Future-Ready ST100 Air/Gas Flow Meter Demonstrations at WEFTEC 2012

Ideal for Industrial or Municipal Water & Wastewater Treatment

San Marcos, CA—Visitors to **WEFTEC 2012** will have the opportunity to learn more in Booth 4755 about the revolutionary **ST100 Flow Meter** from **Fluid Components International (FCI)**, which features the industry's widest choice of communication options with 4-20 mA analog, frequency/pulse, alarm relays and fully-approved digital communications: HART, Foundation Fieldbus, Modbus and Profibus.

The ST100 Series Flow Meter combines superior flow sensing performance with the most feature- and function-rich electronics available today. As the industry's first truly "future-ready" thermal mass gas flow meter, the ST100 features a plug-in card replacement that can be changed out by technicians in the field to adapt to a plant's changing network communication needs.

Featuring a unique graphical, multivariable, backlit LCD display that provides more information than any other thermal flow meter on the market, the ST100 Flow Meter brings new meaning to the term "process information". Its sophisticated readout continuously displays all process measurements and alarm status, and it has the ability to query for service diagnostics.

The comprehensive ST100 Flow Meter measures gas mass flow rate, total flow, temperature and pressure depending on model family. It can store up to five unique calibration groups to accommodate broad flow ranges, differing mixtures of the same gas and multiple gases, and obtains up to 1000:1 turndown. An optional, patent-pending SpectraCal™ Gas Equivalency calibration method lets users select and switch between 10 common gases. Also standard is an on-board data logger with an easily accessible,

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removable 2-GB micro-SD memory card capable of storing 21 million readings.

The ST100 is the world's first triple-variable thermal flow meter. Its exclusive STP family measures mass flow, temperature and pressure, while the ST family measures mass flow and temperature. Both families include single-point and dual-element models as configurations outfitted with FCI's exclusive in-situ calibration option, VeriCal.

ST100 Series Flow Meters are available with three different types of flow sensors to best match user applications: FPC-style, FP-style and S-style. The fast-response FPC-style features an integral, patent pending flow conditioner and protective shroud optimized for compressed air and clean gas applications. The FP-style is a fast response, general purpose design with a protective shroud and is also the sensor used with FCI's VeriCal™ in-situ calibration option. The unshrouded S-style facilitates easy cleaning and provides a smoothed response for applications with wet or dirty gases or erratic flows.

ST100 Flow Meters can be calibrated to measure virtually any process gas, including wet, mixed and dirty gases. The basic insertion style air/gas meter features a thermal flow sensing element that measures flow from 0.25 to 1000 SFPS (0.07 NMPS to 305 NMPS) with accuracy of ±0.75 percent of reading, ±0.5 percent of full scale.

Offering service up to 850ºF (454ºC), the rugged ST100 Flow Meter is designed for rugged industrial process and plant applications. Both integral and remote (up to 1000 feet [300 meters]) electronics versions are available. The ST100 is agency approved for hazardous environments, including the entire instrument, the transmitter and the enclosure. Instrument approvals (submitted and pending) include: FM and FMc: Class 1, Division 1, hazardous locations, Groups B, C, D, E, F, G; ATEX and IECEx: Zone 1, II 2 GD Ex d IIC T4; The rugged enclosure is NEMA 4X/IP67 rated.

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