

FCI to Feature Breakthrough ST100 Flow Meter at WEFTEC 2011

Ideal for Water & Wastewater Treatment



San Marcos, CA — Visitors to [WEFTEC 2011](#) will have the opportunity to learn more about the breakthrough [ST100 Flow Meter](#) from [Fluid Components International \(FCI\)](#), the new industry benchmark in process and plant gas mass flow measurement. The ST100 Mass 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 Series Flow Meter 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. The ST100 Series continuously measures, displays and transmits the thermal flow meter industry's most extensive array of parameters. Whether the need is for conventional 4-20 mA analog, frequency/pulse, alarm relays or advanced digital bus communications such as HART, Foundation Fieldbus, Profibus or Modbus, the new ST100 is the solution.

The new ST100 Flow Meter features a unique graphical, multivariable, backlit LCD display that provides more information than any other thermal flow meter on the market. Bringing new meaning to the term "process information", the 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

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10 common gases. Also standard is an on-board data logger with an easily accessible, removable 2-GB micro-SD memory card capable of storing 21 million readings.

The ST100 series features two main model families: ST and STP. The exclusive STP family measures mass flow, temperature and pressure, making the ST100 the world's first triple-variable thermal flow meter. The ST family measures mass flow and temperature.

The ST100 is available with three different types of flow sensors to best match user applications: FPC-style, FP-style and S-style. The FPC-style is a fast response type that 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.

The rugged ST100 Flow Meter is designed for rugged industrial process and plant applications and offers service up to 850°F (454°C). 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.

Contact: FCI: 1755 La Costa Meadows Dr, San Marcos, CA 92078
Web: www.fluidcomponents.com Tel: 800-854-1993 Tel: 760-744-6950 Fax: 760-736-6250
Email: FCImarcom@fluidcomponents.com