

## New Interactive Web Demo With Close-Ups Of “Future-Ready” ST100 Series Flow Meters

*Chemical, Electric Power, Food, Oil & Gas, Refining  
Water & Wastewater Treatment, Mining, Metals*



San Marcos, CA--A new [online demo](#) featuring interactive close-ups of the revolutionary [ST100 Series Flow Meters](#) from [Fluid Components International \(FCI\)](#) makes it easy to learn more about the new benchmark in process and plant gas flow measurement, combining superior flow sensing performance with the most feature- and function-rich electronics available today.

The easy-to-use ST100 web demo allows users to view each model in the series and learn more about their individual features. User-friendly interactive views show detailed, multi-angled close-ups of each model and simplify learning about the series that is designed to deliver unsurpassed adaptability and value for today and tomorrow's plant gas flow measurement applications. Click the menu to learn more about each device's features including sensor element, output options and process connections.

The future-ready ST100 Series Flow Meter is the industry's first thermal mass gas flow meter designed with a migration path to tomorrow, offering the ability to adapt to a plant's changing network needs with a plug-in card replacement that can be changed out by technicians in the field. 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 Meters feature a sophisticated LCD display/readout that brings new meaning to the term "process information". With a unique graphical, multivariable, backlit LCD display, the ST100 provides the industry's most comprehensive information with continuous display of all process measurements and alarm status, and the ability to query for service diagnostics.

Depending on model Family, the comprehensive ST100 measures gas mass flow rate, total flow, temperature and pressure. The ST100 stores 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, removable 2-GB micro-SD memory card capable of storing 21 million readings.

The ST100 Series offers three different types of flow sensors to best match user applications. 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.

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

The ST100 can be calibrated to measure virtually any process gas, including wet gas, mixed gases 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  $\pm 0.75$  percent of reading,  $\pm 0.5$  percent of full scale.

Designed for rugged industrial process and plant applications, ST100 Flow Meters offer 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](http://www.fluidcomponents.com) Tel: 800-854-1993 Tel: 760-744-6950 Fax: 760-736-6250  
Email: [FCImarcom@fluidcomponents.com](mailto:FCImarcom@fluidcomponents.com)