

## Breakthrough ST100 Air/Gas Flow Meter is Remote Mountable for Hazardous Locations

Chemical, Electric Power, Food, Oil & Gas, Refining  
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San Marcos, CA—The future-ready [ST100 Series Thermal Mass Air/Gas Flow Meter](#) from [Fluid Components International \(FCI\)](#) is now available in a remote mountable configuration, ideal for applications in hazardous areas or hard-to-reach locations.

Remote mount flow meters are ideal for equipment crowded plants or hazardous factory areas where combustible or toxic gases may be present near the transmitter's electronics. The ST100's remote mount transmitter, with optional digital display, can be mounted up to 1000 feet (300 meters) away from the flow sensor using interconnecting cable.

Setting a new industry benchmark for process and plant air/gas flow measurement instrumentation, the revolutionary ST100 Series Flow Meter offers the most feature-rich and function-rich electronics available today. FCI's ST100 offers superior flow sensing performance to deliver unsurpassed adaptability and value, meeting plant gas flow measurement applications for today and tomorrow.

The creation of the ST100 Series Air/Gas Flow Meter was facilitated by discussions with a wide range of instrument, process and plant engineers, who wanted more comprehensive measurement information as well as the flexibility to adapt to future plant and process control technology they might deploy. The ST100 is the first thermal mass flow meter featuring a migration path to tomorrow.

The ST100 Flow Meter continuously measures, displays and transmits the industry's most extensive array of parameters. It is available with 4-20 mA analog, frequency/pulse, alarm relays or digital bus communications such as HART, Fieldbus, Profibus or Modbus. The ST100 Flow Meter adapts as necessary to plants' changing needs or desire for upgrades with a plug-in card replacement that can be changed out by plant technicians in the field, taking "never obsolete" to a whole new level.

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The ST100 Flow Meter features a unique graphical, multivariable, backlit LCD display/readout that brings new meaning to the term “process information”. It provides the industry’s most comprehensive information with continuous display of all process measurements and alarm status, and the ability to interrogate for service diagnostics.

The ST100 Flow Meter is user-friendly and versatile, storing up to five unique calibration groups to accommodate broad flow ranges as well as differing mixtures of the same gas and multiple gases, obtaining up to 1000:1 turndown. The optional, patent-pending SpectraCal™ Gas Equivalency calibration method lets users select and switch between 10 common gases. The ST100’s standard on-board data logger features a removable 2-GB micro-SD memory card capable of storing 21 million readings.

The ST100 is the industry’s first thermal flow meter to offer three different types of flow sensors to best match user applications. The fast-response FPC-style is a fast response features an integral flow conditioner and protective shroud optimized for compressed air and clean gas applications. The fast-response, general purpose FP-style features a protective shroud and is the sensor used with FCI’s VeriCal™ in-situ calibration option. For wet or dirty gases, or erratic flows, the unshrouded S-style facilitates easy cleaning and provides a smoothed response.

The comprehensive ST100 Series is available in two core model families. ST meters measure mass flow and temperature, while the exclusive STP family adds a third parameter, pressure, making the ST100 the world’s first triple-variable thermal flow meter. 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 can be calibrated to measure virtually any process gas including dirty, wet and mixed gases. The basic insertion style air/gas meter 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.

ST100 Series Flow Meters are designed for rugged industrial process and plant environments, including service up to 850°F (454°C). The ST100 is agency approved for hazardous environments, including the entire instrument, the transmitter and the rugged, NEMA 4X/IP67 rated 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.

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