

ST75 Flow Meter Receives FM, CSA Approvals For Application In Rugged Process Environments

*Ideal For Co-Gen Electric Power Turbines, Food/Beverage Chillers,
Heat-Treating Systems, Pharmaceuticals, Specialty Chemicals and More*



San Marcos, CA—The advanced and highly accurate [ST75 Flow Meter](#) from [Fluid Components International](#) (FCI), which is designed for process gas, fuel gas, inert gas, waste gases and air in small line sizes, is now FM and CSA approved for safety in rugged process industry plant environments.

FM Global certifies products to assure customers that they conform to the highest national and international safety standards for loss protection and risk management. The FM APPROVED mark assures FCI's customers that the ST75 Flow Meter has been deemed to perform reliably and safely, backed by independent scientific research and testing.

A certification mark from CSA International means that the ST75 Flow Meter has been formally tested and inspected and determined to meet the highest standards for safety and performance. CSA International tests products for compliance with safety and performance standards at both the national and international levels.

The highly accurate ST75 Flow Meter is designed small line sizes ranging from 0.25 to 2.0 inches and offers a rich set of features. The ST75 provides three unique outputs: the mass flow rate, totalized flow and media temperature. It is ideal for applications in a wide range of industries including chemical, electric power, food/beverage, advanced materials, pharmaceuticals, semiconductor and more.

Media temperature compensation ensures that the ST75 maintains consistent performance in rugged environments and features accuracy to $\pm 2\%$ of reading with $\pm 0.5\%$ repeatability. Its precision flow element has a no-moving parts design that employs platinum RTD sensors embedded in equal mass thermowells with microprocessor electronics calibrated to laboratory standards for a wide range of gases: natural gas, methane, nitrogen CO₂, argon, all inert gases, compressed air and more.

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Operating over a wide flow range, from 0.01 to 559 SCFM (0.01 NCMH to 950 NCMH) depending on line size, the ST75 Flow Meter is equally well suited for low flow and high flow operations. For variable process conditions, the ST75 is factory preset to a wide turndown range at 10:1 to 100:1.

In hazardous factory areas and crowded plants where explosive, flammable or toxic gases may be present near transmitting electronics, the ST75's remote mounting capabilities ensure an accurate and low-maintenance measurement solution for small line size gas and air flow applications in hard to reach locations. The remote mount transmitter, which includes a full digital display, can be mounted up to 50 feet (15 meters) away from its thermal mass flow sensor in the process piping and connected via two 0.50-inch FNPT cables.

The ST75 Flow Meter's fully scalable 4-20mA and 0-10V standard outputs are user assignable to flow rate and/or temperature and a 0-1kHz pulse output of total flow. The instrument can be ordered for input power with either 18 to 36 Vdc or 85 to 265 Vac, with or without a built-in LCD digital display.

The ST75 offers direct-flow measurement for higher performance at a lower cost with proven thermal dispersion technology, eliminating the need for temperature sensors, flow computers, or other devices that are required with orifice plates, Venturis, Vortex shedding, and other meters. A no-moving parts design ensures superior service life. There are no orifices or inlets to clog or foul, which significantly reduces scheduled maintenance and unplanned shut-downs.

The ST75 is enclosed in a rugged, all-metal, dust and water resistant NEMA Type 4X (IP66) rated package designed for hazardous area installations and includes a rugged sensing element constructed with all welded 316 stainless steel and Hastelloy-C tips. ATEX/IEC approvals include: Zone 1, II 2 G Ex d IIC T6 . . . T3; II 2 D Ex tD A21, IP67 T90° . . . T300°.

Fluid Components International is a global company committed to meeting the needs of its customers through innovative solutions to the most challenging requirements for sensing, measuring and controlling flow and level of air, gases and liquids.