

FCI's ST50 Mass Flow Meter Now FM and CSA Approved

Chemical Processing, Food/Beverage, Oil & Gas, Pharmaceutical, Wastewater



San Marcos, CA—September 15, 2009—The precise, intelligent and cost-saving ST50 thermal mass Flow Meter from Fluid Components International (FCI) is now FM and CSA certified to meet the highest national and international standards for safety, reliability and performance.

FM Global is an international insurance company that provides comprehensive risk management solutions. When a product has been certified by FM Global, it conforms to the highest national and international safety standards for risk management and loss protection. The FM APPROVED mark assures FCI's customers that the ST50 Flow Meter has been deemed to perform reliably and safely, backed by independent scientific research and testing.

CSA International is also a leading provider of product testing and certification. CSA International tests products for compliance with national and international standards for safety and performance. A CSA certification mark means that the ST50 Flow Meter has been formally evaluated, through testing and follow-up inspection, and meets the highest safety and performance standards.

The FM- and CSA-approved ST50 Flow Meter provides direct mass flow measurement with higher effectiveness at a lower cost, utilizing FCI's highly accurate thermal dispersion mass flow sensing technology. With the ST50, there is no need for the temperature sensors, flow computers or other devices required with orifice plates, Venturis, Vortex shedding and other meters. The ST50's unique design also provides built-in temperature compensation for reliable measurement over a wide temperature range with almost no pressure-drop.

Featuring a wide flow range, the ST50 Flow Meter measures air flow from 1 to 125 SFPS (0.3 to 38 NMPS), nitrogen from 1 to 150 SFPS (0.3 to 46 NMPS) and compressed air from 4 to 400 SFPS (1.2 to 122 NMPS). Accuracy is $\pm 1\%$ of reading, $\pm 0.5\%$ of full scale, with repeatability of $\pm 0.5\%$ of reading. It operates at temperatures from +40 to 100°F (4 to 38°C).

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The ST50 offers superior performance, low maintenance, ease of installation and long-life for the best value in its class. The versatile ST50 is suitable for applications in chemical processing, food/beverage, pharmaceutical, plant air and wastewater treatment. It is ideal for aeration systems, burner and furnace air control, blower and dryer air flow, compressed air systems, HVAC systems, nitrogen tank blanketing and more.

The flexible ST50 is field configurable for flow range in standard mass flow or volumetric engineering units. In addition to the wireless IR I/O, it features dual analog outputs, 4-20 mA and 0-10 Vdc, which are field assignable as flow rate or temperature and a RS232C I/O port. A 0-1kHz pulse output for totalizing flow is also available as an option. All configurations are easily user set in the field with any standard laptop to the RS232C port and/or via the wireless IR link/PDA.

The rugged ST50's stainless steel sensing element, featuring Hastelloy-C tips, is designed for endurance and maximum performance in outdoor and field installation conditions. Its electronics are housed in an all-aluminum, epoxy-coated enclosure that is NEMA 4X (IP66) rated and it withstands operational pressures up to 500 psig [34 bar (g)].

The new ST50 high-accuracy flow meter offers three process connections: 1/2-inch MNPT or 3/4-inch MNPT with a stainless steel or Teflon ferrule. It is available in three field adjustable U-length probes, 6, 12 and 18 inches (152, 305, and 457mm) to accommodate pipe sizes 2 to 124 inches (51 to 610mm). Instrument powering options include both DC (18-36V) and AC (85-265V). The ST50 comes with a 1-year standard warranty.

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.

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