

Industry's Broadest Family of Natural Gas Submetering Thermal Flow Meters Meets Simple-To-Complex Needs

Ideal for Plant or Process Fuel Usage Tracking, Emissions Monitoring or Control, Cost Center Accounting and Carbon Tax Credits Trading Programs

San Marcos, CA — Engineers will appreciate how the wide selection of high-performance, low-maintenance, long-life, natural gas submetering thermal flow meters from [Fluid Components International \(FCI\)](#) offers them basic to advanced feature sets and with comprehensive agency approvals, including, Div1/Zone1 and SIL ratings, to measure local gas usage.

The submetering of natural gas usage at plant or facility distribution points provides greater insight in the understanding of point-of-use fuel consumption and accountability, operational requirements, emissions and operating costs. No matter whether the application is simple campus, facility or plant heating, or complex industrial processes including ovens, burners, or boilers, etc., there is an FCI thermal flow meter series suitable for the task.

The FCI family of thermal flow meters are economical and easy-to-install, versatile solutions to measure the flow rate and totalized flow of air and natural gas. They are direct mass flow measuring, wide range 100:1 turndown instruments, all with precision calibration in natural gas flowing at actual installation temperature and pressure conditions. Their inline or insertion designs provide a threaded or flanged connection into the piping from 0.25 inch [DN6] to the largest of line sizes, powering by AC or DC sources, and large choice of local digital readouts, analog, and digital bus outputs.

FS10i Series

The compact [FS10i flow meters](#) are ideal for insertion or inline natural gas line sub-metering tasks. Like all FCI thermal meters, they provide Div2/Zone2 compliant, direct mass flow measurement requiring no pressure, temperature, or other components. Independently evaluated SIL 2 certification as an HFT0 device makes them the choice for safety instrumented system (SIS) critical processes.



ST51, ST51A Series

The [ST51 Series flow meters](#) are designed as a low cost, compact yet rugged, Div1/Zone1 rated solution for accurate, repeatable flow measurement of natural gas, bio-methane, and air. This insertion-style flow meter is available in probe lengths for installation into pipe diameters from 2.5 inches to 24 inches [63 mm to 610 mm]. Connection is via a 0.5 inch or 0.75 inch [12.7 mm to 19.05 mm] NPT compression fitting. Dual 4-20 mA outputs are standard with HART or Modbus I/O optional.

ST75, ST75A Series

The [ST75 Series flow meters](#) provide a low cost, compact, yet rugged solution for accurate, repeatable direct mass flow measurement. These in-line (spool-piece) style meters have no moving parts and are for use in pipe diameters from 0.25 inch to 2 inches [6 mm to 51 mm]. They feature wide 100:1 turndowns and come standard with dual 4-20 mA outputs and a 500 Hz pulse output. Optional are HART or Modbus I/O communication and integrated Vortab flow conditioners.

ST80, ST80L Series

The [ST80 Series flow meters](#) offer a high performance, rugged instrument with ultra-reliable, feature-rich electronics, and FCI's fast response time, Adaptive Sensing Technology™ (AST). They feature the industry's most extensive selection of application-matched flow sensors, including FCI's new "wet gas" flow element, a broad choice of process connections, and industry's widest selection of outputs to provide a truly superior solution for industrial processes and plant applications.

ST100A Series

The [ST100A Series flow meters](#) are industry's most advanced thermal gas instrument. They include feature-and-function-rich electronics and sensors, ultra-rugged IP67, Div1/Zone1 transmitters, and superior 0.75% of reading accuracy. Whether the output is 4-20 mA analog, frequency/pulse, or digital bus communications such as HART, FOUNDATION Fieldbus™, PROFIBUS, or Modbus, the ST100A has it covered.

Fluid Components International (FCI) is a global company committed to meeting the needs of its customers through innovative solutions for the most challenging requirements for sensing, and measuring flow, pressure and temperature of gases.