

Industry's Most Versatile Thermal Flow Meter Family Meets Simple-To-Complex Natural Gas Submetering Needs

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

The importance of the accurate submetering of natural gas usage within a wide range of industries is growing at plant or facility distribution points. The metering data provides greater insight into the understanding of point-of-use fuel consumption and accountability, operational requirements, emissions monitoring 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.

FCI's highly accurate 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. These rugged meters 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 (6 mm) to greater than 99 inches (2500 mm), powering by AC or DC sources, and large choice of local digital readouts, analog, and digital bus outputs. All FCI natural gas flow meters are calibrated using actual gas, at customer specified temperature and pressure conditions, in precision flow stands outfitted with NIST and ISO/IEC 17025 traceable equipment so that you can be confident in their installed performance and quality.

FS10i Series

The compact, go anywhere [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 economical [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 to 24 inches (63 to 610 mm). Connection is via a 0.5- or 0.75-inch (12.7- or 19.05-mm) NPT compression fitting. Dual 4-20mA outputs are standard with HART or Modbus I/O optional.

ST75, ST75A Series

The low cost [ST75 Series Flow Meters](#) provide a 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 to 2 inches (6 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 high performance [ST80 Series Flow Meters](#) offer 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 with a broad choice of process connections, the industry's widest selection of outputs, handle process temperatures to 850° F (454 °C), and carry global agency approvals for hazardous Ex installations to provide a truly superior solution for industrial processes and plant applications.

ST100A Series

The sophisticated [ST100A Series Flow Meters](#) are the 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.

FCI solves flow and level measurement applications with advanced thermal dispersion technologies. With 60 years' experience and the largest installed base of thermal flow meters, flow switches and level switches, count on FCI to know your application and have the solutions.