

Industry's Widest Choice of SIL-Rated Thermal Flow Meters For Safety Critical Applications

*For Process SIS Applications in Chemical Plants, Power Plants,
Refineries, Oil/Gas, Mining, Cement, and more*

San Marcos, CA — Process and plant engineers in demanding industries who are responsible for safety-instrumented systems (SIS) requiring air/gas flow measurement will find that [Fluid Components International \(FCI\)](#) offers them the industry's [broadest selection of SIL-rated thermal mass air/gas flow meters](#).

For more than five decades FCI has been a world leading manufacturer of thermal mass flow measurement instrumentation for industrial processes and plant operations. For the last 10-plus years FCI has invested in developing SIL compliant products across its product line and today offers more SIL rated thermal mass flow meters than any other manufacturer. From basic air to the complex gas mixture gas flows and from common 4-20mA analog outputs to digital bus communications such as HART, Modbus, and more, for SIL 1 or SIL 2 applications, there is an FCI flow meter solution. In addition to SIL ratings, FCI products are approved by global agencies for Ex-rated installations.

The international standards most often cited and requested for SIS in industrial processes and applied to thermal flow meters are: IEC 61511: Functional Safety - Safety Instrumented Systems for the Process Industry Sector; ANSI/ISA-84.00.01 (IEC 61511 Mod) - Functional Safety: Safety Instrumented Systems for the Process Industry Sector; and IEC 61508: Functional Safety of Electrical, Electronic, & Programmable Electronic Safety Related Systems.

With an ever increasing demand and global focus on plant and operational safety within the chemical, electric power, oil/gas, petroleum refining and other industries, instrumentation specifications have expanded to require compliance with these standards. To ensure FCI provides unbiased failure rate data, FCI has responded to this requirement by utilizing independent, authorized third parties such as exida and TÜV Nord to perform the FMEDA (Failure Modes, Effects and Diagnostics Analysis) of its portfolio of thermal mass flow meters.

The result is the industry's largest offering and widest selection of SIL compliant thermal dispersion technology flow meters.



The process industries over the past two decades have seen many changes when it comes to the design and implementation of emergency shutdown/safety systems. Today compliance with the various international and regional safety standards requires a more rigorous approach to the overall safety lifecycle of a system compared to the reliance on the best engineering design practices of the past.

[Click here](#) to view FCI's broad offering of SIL compliant thermal mass flow meters.

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.