

Space-Saving ST75V Hydrogen Flow Meter With Agency Approvals For Hazardous Areas

Ideal For Oil/Gas Refineries, Ammonia Production,

Food Plants, Mining, and Fuel Cell Skids



San Marcos, CA — With its precision thermal mass flow sensor, no-moving parts construction and space-saving design, the advanced ST75V Hydrogen Flow Meter from Fluid Components International provides highly accurate and repeatable gas flow measurement in hazardous small line gas process applications where agency safety approvals are required.

FCI's advanced ST75V Hydrogen Flow Meter combines highly reliable, no-moving parts thermal mass flow sensing technology with built-in precision Vortab® flow conditioning to deliver $\pm 1\%$ of reading accuracy ($\pm 0.5\%$ full scale) in line sizes from 0.25 to 2.0 inches (6 to 51mm). The ST75V is also exceptionally dependable featuring repeatability of $\pm 0.5\%$ that will ensure consistent hydrogen gas measurement to meet rigorous process quality standards and reduced plant operating costs.

The ST75V Hydrogen Flow Meter's built-in Vortab flow conditioning technology reduces straight pipe run requirements by up to 70 percent, eliminating swirl and other pipeline flow distortions to ensure precise gas flow measurement in challenging conditions. In many plants and skid-mounted applications, crowded equipment and piping configurations result in an inadequate or unavailable straight-on or an obstructed flow environment that often affects flow measurement accuracy.

The ST75V Hydrogen Flow Meter has system safety approvals from FM/CSA Class 1, Div 1, Groups B, C and D; as well as Class 1, Div 2, Groups A, B, C and D, T4. It also meets the requirements for ATEX II 3G EEx nA II T6; II 3D T65 C (dc powered version).

The ST75V Hydrogen Flow Meter is ideal for a wide range of small line process applications. In the petroleum and chemical industries, hydrogen is utilized in many fuel and other chemical upgrading processes. In fuel cell systems, particularly skid-mounted

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applications where real estate and piping straight-run is limited, the ST75V's compact size is a big advantage. The production of ammonia is also dependent on hydrogen for the fertilizer industry. Hydrogen has been used as well as a hydrogenating agent in the food industry and a reducing agent for metallic ores.

Blending high accuracy with extensive features, the ST75V Hydrogen Flow Meter measures gas flows from 0.01 SCFM (0.01 NCMH) to 559 SCFM (950 NCMH). Standard outputs for the ST75V are fully scaleable 4-20mA and 0-10V that are user assignable to flow rate and/or temperature and a 0-1kHz pulse output of total flow. The instrument can be ordered for powering by 24VDC or 115/230VAC, with or without a built-in LCD digital display, and in local or remote-mounted electronics configurations.

The thermal mass flow sensor designed for the ST75V Hydrogen Flow Meter is all-welded stainless steel with Hastelloy-C tips that provide extra protection against corrosive conditions within the pipe. With its unique flow sensor design, there are no orifices or moving parts to clog or foul, which eliminates unplanned shutdowns, reduces maintenance and extends sensor life. The transmitter is enclosed in a rugged, all-metal, dust and water resistant, NEMA Type 4X (IP67) rated package which is FM and ATEX agency approved for installations in hazardous locations.

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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