

Small Line Process Flow Meter Delivers Superior Accuracy



Process and plant engineers will find the ST98L In-Line Mass Flow Meter from Fluid Components International (FCI) is the reliable flow measurement solution for virtually any air or gas mixture in small process line sizes from one to two inches where superior accuracy is necessary in demanding industrial environments.

With the ST98L In-Line Flow Meter, FCI combines precision thermal dispersion mass flow sensing and advanced electronics with exacting fluid calibration and a choice of rugged, industrial enclosures. The result is superior air/gas measurement at an economical instrument low lifecycle cost, which is highly repeatable over a long service life with virtually no maintenance.

The flow meter comes in two different flow element styles that are application-specific. Select the -F style element for applications in dry, clean air/gases with fluid temperatures up to 350°F [177°C]. The -F design incorporates FCI's unique equal mass sensor in smaller diameter thermowells for faster response time and improved repeatability in processes with dynamic temperature swings.

The -S style flow element is suitable for demanding applications involving dirty or erosive fluids, high moisture content gas, or a pulsating flow. The -S element features more robust, thicker wall thermowells and an unshrouded equal mass sensor element that provides a noise-filtered response, extended erosion resistance and easier cleaning.

With its highly reliable thermal mass sensing element, the advanced ST98L In-Line Mass Flow Meter from FCI delivers precision gas flow rate, totalized flow and temperature measurement. It features high accuracy to $\pm 1\%$ of reading, 0.5% of

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Published on Medical Design Technology (<http://www.mdtmag.com>)

full scale. Exceptionally consistent, the ST98L offers repeatability to $\pm 0.5\%$ of reading and is temperature-compensated for accurate measurement under variable environments.

The ST98L Flow Meter operates over a flow range from 0.0062 to 1850 SCFM (0.01 to 3,140 Nm³/h). It features a turndown ratio that is factory preset from 10:1 up to 100:1 within the calibrated flow range and operates at pressures up to 250 psig [17 bar (g)].

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