New Advanced Flow and Level Sensor Guide
For OEM Applications

Ideal For Boiler Systems, Burners & Industrial Furnaces, Chillers, Air & Gas Compressors, Blowers & Dryers, Co-Gen Power Generators and Much More

San Marcos, CA

Engineers designing industrial process and discrete manufacturing OEM equipment will find the new M180 OEM Sensor Series Guide from Fluid Components International offers a wide array of innovative sensor solutions for flow, level and pressure measurement or switching.

The M180 Series is a family of high performance sensors that combines high accuracy, fast response and superior reliability using FCI's thermal dispersion sensor technology to fit a wide range of OEM applications. Now designers can improve sensor performance while gaining reliability and meeting product cost reduction goals.

Designed for use in equipment or machinery that requires flow or level sensing as part of its control system loop or as part of its operating system, the M180 Sensors provide switching, alarming, rate metering and totalizing of air, gases or liquids. These sensors are ideal for fuel and air feed lines, additive dispensing control, oil and lubricant circulation, pump protection circuits, cooling system controls, over/under flow limit switches and more.

Supporting line sizes from 0.25 to 60 inches (6 to 1524 mm), the M180 Sensors are ideal when embedded in new product designs, offered as optional upgrades or as replacements to existing sensors. They feature FCI's precision thermal dispersion sensing technology, which has proven itself in hundreds-of-thousands of process and industrial end-user applications worldwide for over 40 years. These sensors combine wide flow and turndown ranges with high accuracy and repeatability to achieve dependable operation in a broad range of applications and conditions.

Unlike mechanical rotary, float or orifice plate sensors that frequently breakdown or clog, the M180 Sensors feature a no-moving parts, minimally invasive sensor design that is virtually maintenance-free. Its two platinum RTD sensors are mounted in miniature thermowells, which are fully sealed to avoid contamination by the process fluid. With a mean time between failure (MTBF) rating calculated to exceed 60,000 hours of service, the M180 Series delivers unmatched reliability and long-life that will minimize maintenance costs and increase customer satisfaction.

The M180 Sensor's miniature sensor design ensures both fast-response and superior repeatability under all process conditions. Additionally, because there is minimal pressure drop, M180 Sensors will save cost and increase their equipment's efficiency by not having to boost line pressure to achieve needed flow rates.

Over 30 different standard designs are available or FCI will create custom designs to any OEM specifications. FCI can engineer custom flow or level sensors to meet requirements for any process media, line size, installation environment, temperature, pressure, calibration and

output signals. Various sensor designs comply with industry standards, including UL, CE, FM, ATEX, CSA and more. FCI is ISO 9001:2000 and AS9100 certified.

FCI maintains its own world-class, NIST traceable, precision flow calibration facility that provides total accuracy and performance assurance for all of its products. This industry unique, extensive laboratory supports design validation testing as well as calibration of production products for virtually all gas and liquid media. The systems accommodate flow rates from 0.01 to 3700 SCFM (0.02 to 6300 NCMH) over various pressures from 0 to 1000 psig (0 to 69 bar) and temperature conditions from –50 to 1000ºF (-46 to 538ºC). FCI's actual media calibration of its flow sensors ensures delivered products meet their accuracy and total product operation specifications.

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 air, gas, liquid, flow, level and temperature.