

Fast Response FLT93F Flow Switch Monitors Room Positive Air Pressure and Exhaust Ventilation Systems

Responsive Thermal Technology Flow Switch Reliably Monitors For Air Leakage and Assures Exhaust Vent Operation

San Marcos, CA— Plant engineers and maintenance staff responsible for ensuring reliable operation of positive air pressure and exhaust ventilation systems for clean rooms, labs, analyzer houses or production areas will find the [FLT93F Flow Switch](#) from [Fluid Components International \(FCI\)](#) provides them a highly sensitive and reliable solution to monitor and alarm if the system is degrading, not operating to specifications, or has shut-down.



A wide range of clean rooms, research laboratories and production environments in the pharmaceutical, biotech, and medical industries, as well as analyzer houses and shelters in chemical plants, refineries, and power plants utilize positive air flow pressure and exhaust ventilation systems to ensure contaminants are continuously prevented or removed from their closed environment. These systems use fans to maintain a higher than ambient air pressure environment inside a designated area to ensure clean, contaminate-free air and/or strong exhaust fans to remove hazardous fumes. With its SIL 2 rating the FLT93F is ideal for use when the applications are part of a safety instrumented system (SIS) requirement.

The FCI Model FLT93F Flow Switch is specifically designed for air and gas flow detection. It is both fast response and capable of detecting even very slight changes in flow. They are available in a variety of process connections for ease of installation in most any pipe, vent, or duct size. Its universal power supply supports powering by 115 VAC, 230VAC, or 24 VDC. Its trip-point/alarm points are easily user set in the field, at the installation. It is standard with fail-safe, heavy-duty dual alarm (SPDT) or DPDT relay outputs, rated 6 amps at 115 Vac, 240 Vac or 24 Vdc.

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The FLT93F Flow Switch's flow sensor element is an all-welded design and constructed of premium 316L stainless steel. It has no moving parts to break or orifices to foul or clog so there is no required routine maintenance needed. The flow switch instrument is available in a choice of rugged, all metal enclosures that are NEMA 4X/IP66 rated for long service life in the most demanding installations and environments. Electronics can be mounted integral with the flow element or remote mounted.

For applications in potentially explosive dust or gas environments, the FLT93F is also suitable for installation in Div.1/Zone 1 areas and certified to local standards of FM, FMc, ATEX, IECEx, NEPSI, EAC, Inmetro, UKCA, and EQM/ECAS. It also meets the EC directives for EMC and LVD and the flow element complies with Canadian Electrical code requirements of ANSI/ISA 12.27.01-2011 as a single seal device.

Fluid Components International 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.