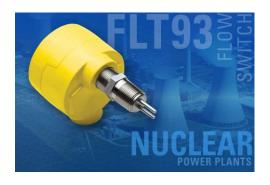


## FCI FLT93 FlexSwitch Provides Reliable Flow or Leak Detection In Nuclear Power Plants

Ideal for Reactor Core Coolant, Level Interface Detection & Temperature, Pump Protection, Flood Alarm, Condensate Pot Level, Turbine Water Level



San Marcos, CA - Nuclear power industry process and plant engineers searching for a precision flow/level/temperature switch for use in liquid, air, gas or for interface service will find the <a href="FLT93">FLT93</a>
Series FlexSwitch® from Fluid Components
International (FCI) provides a highly reliable solution in a wide range of applications.

Ideal for use in a wide range of nuclear power plant flow, level and temperature measurement applications, the FCI FLT93 FlexSwitch provides dependable critical equipment protection and plant integrity validation. Applications include: reactor core coolant, level interface detection and temperature, pump protection, flood alarm, condensate pot level and turbine water level. It is ideal in any application where the measurement of both flow and temperature or level and temperature are important.

The FLT93 FlexSwitch's single sensor design provides dual measuring functions. Nuclear plant operations save weight, space and costs over two or more discrete sensors. Operators also realize reduced qualification installation costs and complexity.

FCI's FLT93 FlexSwitch is the process industry's most advanced heavy-duty thermal dispersion technology flow and level switch in the world. Its multi-parameter measurement design is based on more than 50 years of flow and level switch engineering and application experience, providing a rugged long-life instrument.

The FLT93 FlexSwitch has been tested to IEEE 323-1983 and IEEE 344-1987, making it fully qualified for Class 1E safety related nuclear power plant applications. FCI maintains a 10CFR50 Appendix B Quality Assurance Program and complies with 10CFR21 and ANSI-N45-2. Both the insertion and in-line sensor versions are qualified for a 40-year life at 150°F. The FLT93 sensor is qualified to radiation levels of 2x108 rads. The FLT93 electronics are qualified to 5x105 rads for applications requiring an integral unit (sensor and electronics).

A dual-function instrument, the FLT93 FlexSwitch can be configured for flow or

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level sensing, flow + temperature sensing or level + temperature sensing. A single FLT

measures and monitors flow or level and temperature simultaneously with excellent accuracy

and reliability. Dual trip points and 6A relay outputs are standard and are assignable to

flow, level or temperature.

FCI's unique sensor technology when combined with its FlexSwitch temperature

compensation circuitry provides users with unparalleled performance capabilities: It operates

at a process temperature range of -40 to 250°F [-4 to 121°C], at a process pressure rating of

2000 psig and accuracy of ±5% of reading on flow.

In water, the sensing element set point range is up to 0.01 to 3.0 SFPS [0.003 to 0.09]

SMPS], 3.0 watt heater power, depending on the specific model configuration.

hydrocarbon-based liquids, the sensing element set point range is up to 0.01 to 5.0 SFPS

[0.003 to 1.5 SMPS], 3.0 watt heater power, depending on the specific model configuration.

In gases, the sensing element set point range is 0.25 to 120 SFPS [0.076 to 37 SMPS], 0.75

watt heater power at standard conditions: 70°F [21.1°C], 14.7 psig [1.013 bar(g)]

A wide selection of standard and custom process connections can be provided. The

electronic control circuit can be integrally-mounted with the sensing element, or it can be

located in a remote location. The standard enclosure is a coated aluminum alloy. It can be

used in ATEX locations and is rated for NEMA Type 4X (IP66) environments.

FCI has been a Continuous Class 1E Supplier to the nuclear power industry since

1978, with today more than 30 applications operational in 115 nuclear power plants around

the world. The company is Qualified to IEEE 323 and 344, as well as ISO 9001 certified and

NUPIC approved. FCI is the only manufacturer of thermal dispersion technology flow

meters, flow switches, level switches and level gauges accredited for both nuclear safety

related and balance-of-plant applications.

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.

Contact: FCI: 1755 La Costa Meadows Dr, San Marcos, CA 92078