

## Two-Wire, Loop-Power Level Switch For Tank Monitoring and Interface Control

Oil/Gas Refineries and Storage Depots, Chemical Processing,

Electric Power Generation, Food/Beverage, Pharmaceutical



**San Marcos, CA—May 29, 2008—**Process and plant engineers will find the rugged NuTec® LS2000 Level Switch from Fluid Components International (FCI) provides highly reliable level monitoring and interface control in demanding process industries that require precise measurement, low maintenance, long-life and low instrument cost-of-ownership.

The LS2000 Level Switch is designed for two-wire, 4 to 20 mA loop power that allows the LS2000 to serve as a drop-in replacement for other two-wire mechanical float and paddle switches without any wiring modifications during plant retrofit projects, which simplifies installation and reduces cost. The LS2000 is also available for 115/230 Vac or 24 Vdc input power and a 6A relay output.

The LS2000 Level Switch features an advanced no-moving parts thermal mass flow sensor constructed with either 304/305 stainless steel or with 316L all welded stainless steel with wetted surfaces for rugged environments. With no moving parts to break, maintenance is virtually unnecessary after installation.

Highly accurate, the LS2000 Level Switch in its top mount configuration measures level within  $\pm 0.25$  inch (6mm) from its element tip. The side mount configuration is accurate to  $\pm 0.125$  (3mm). It is fully temperature compensated for process and plant environment swings of up to  $\pm 100\text{F}$  ( $\pm 38^\circ\text{C}$ ) to provide exceptional measurement accuracy and stability under harsh conditions.

Designed for service in tank and sump level applications, as well as fill/drain control and overflow detection, the LS2000 Level Switch is a versatile instrument. It is also highly responsive, sensing dry-to-wet conditions in less than 2 seconds, wet-to-dry in less than 5 seconds and wet-to-wet interface in less than 10 seconds.

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The LS2000's advanced thermal mass flow sensing technology makes it suitable for detecting and controlling interface in tanks and separation vessels. It is especially useful in identifying the interface of multiple media, such as liquids and foams or liquids and sediments—even liquids and resins.

The rugged LS2000's level sensor operates at temperatures from -40 to +250°F (-40 to 121°C) and at pressures to 500 psig (35 bar [g]) for use in demanding processes. Its aluminum enclosure is rated NEMA 4X (IP66) for harsh environments. Approvals and ratings include: Class I and II, Div 1 and 2, Groups C and D, as well as FM, CSA, CE marking and ATEX (pending).

Compatible with clean media or dirty, slurry or foaming media, the LS2000 Level Switch operates with a precision thermal mass flow sensor. Its two highly stable platinum RTD sensors are mounted in fully sealed, miniature thermowells that ensure long and dependable operation in even the dirtiest of media and plant conditions. Its miniature sensor design ensures both fast-response and superior repeatability under all process conditions.

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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