

Miniature Liquid Level Switches

MDT Staff

Ultrasonic switches serve as direct replacement of electro-optical and mechanical float switches



Measurement Specialties, an expert in sensor design and manufacturing, now offers the LL-01 Sentio Series of [miniature ultrasonic liquid level switches](#) [1] that combines ultrasonic technology with reliable analog circuitry to precisely measure aerated liquids. The rugged, 316L stainless steel sensors are not affected by the dielectric or optical properties of liquids. Find out more about [Measurement Specialties' Ultrasonic Switches](#) [2].

The series reliably detects liquid levels in space-constrained applications, such as fluid storage tanks, compressors, boiler tanks, hydraulic reservoirs and chillers. Many OEM markets including medical and histology, HVAC, industrial automation, chemical delivery and waste management benefit from the sensors' advanced properties.

The compact, cost-effective design, including the integral analog circuitry, allows easy integration into a wide variety of industrial equipment. The fluid level detectors come with either 1/4" NPT or 1/2" NPT threaded fitting, and use no moving parts for exceptionally long-term operation.

The new switches handle pressures up to 250 psig (1,724 Kpa) as standard with higher pressures up to 500 psig (3,447 Kpa) available. Input power is 5 VDC to 30 VDC and standard relay output is 0.5 A SPST in a normally opened configuration, with a normally closed relay option for high level fail-safe operations.

A 4-20 mA power loop output can also be incorporated into the new sensors to ensure that signal accuracy remains unaffected by voltage drop or to supply operating power to the device.

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Each unit offers transient and reverse polarity protection against surge damage. Operating temperature is -20°F to +176°F (-29°C to +80°C). Repeatability is 2 mm or better and leak current is less than 50 microamps.

Technical Specifications:

- Ultrasonic technology for enhanced measurement of aerated liquids
- Repeatability of 2 mm or better
- Standard relay output of 0.5 A SPST
- Handles pressures of 250 psig standard; up to 500 psig available
- Wide operating temperature: -20°F to +176°F (-29°C to +80°C).

Pricing and delivery for an LL-01 switch is dependent upon quantities ordered.

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<http://www.mdtmag.com/product-releases/2014/04/miniature-liquid-level-switches>

Links:

[1] <http://x.simongroup.com/y.z?l=http%3A%2F%2Fmeas-spec.com%2Fproduct%2Fultrasonic%2FLL-01.aspx&e=277&j=306311014&t=h>

[2] <http://www.meas-spec.com/>