

Float Type Multi-Point Custom Length – 1 to 7 Levels

GEMS Custom Length level switches are extremely versatile. Within this section you'll find level switches that are configured to your custom specifications at the GEMS factory.

Single Actuation Levels

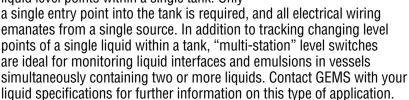
When one of our Standard Single Level switches doesn't extend to the length you need, no problem, order a Custom Length single level switch from this section. Specify lengths to over 11 feet. These units also offer you the flexibility of mounting a low, or intermediate level switch from the tank top rather than a bottom or side mounting.

Multiple

Levels. As Many as Seven

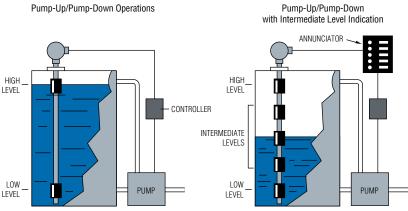
2 to 7 Levels

GEMS Custom Length models can be configured with "up to seven" independent switch actuation levels, depending on the series type. These "multi-station" units offer the most practical way to monitor multiple liquid level points within a single tank. Only



Typical Application

GEMS Custom Length Switches are used to monitor water, diesel or lube oils, chemicals and petrochemicals.

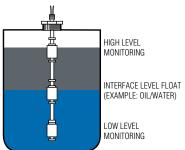


Using GEMS Custom Length level switches, junction boxes, solid-state relays and annunciators, complete liquid level control systems are easily configured.

Liquid Interface Monitoring

In addition to monitoring the surface level of liquids, many GEMS Level Switches can be used to sense the interface point between dissimilar liquids sharing the same tank. Monitoring water condensation in fuel storage tanks, and separating chemical emulsions in process systems are two typical application examples. Multi-station level switches can be configured to monitor this interface point in addition to high and low liquid levels. Contact Gems Sensors Inc. with your specific application.





Ultrasonic — Non-Contact Multi-Point Sensors

Accurate and reliable sensing method

Ideal technology for difficult fluids

Gems delivers the answer for challenging fluid measurement with our new ultrasonic UCL-510 Transmitter/Multipoint Level Switching Combo. This accurate and reliable sensor is designed for the most difficult fluids to monitor — including ultrapure, dirty, coating, scalding or corrosive types.



Typical Media

- Acids
 Wastewater
 Inks and Paints
 Slurries
 Food and Beverage
- Semiconductor Process Chemicals Oils and Petroleum Distillates

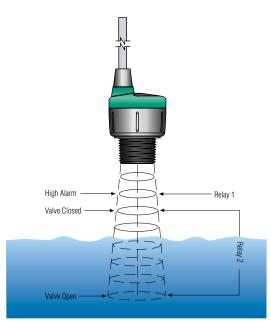
How Ultrasonic Monitoring Works

Mounted at the top of a tank, the sensor continuously transmits pulses of high-frequency sound waves that travel away from the sensor, hit the surface of the liquid and return to the sensor. Solid-state electronics measure the time it takes from transmitted sound to return of the echo. With reference to the speed of sound in air, the exact distance of the liquid surface from the sensor can be

exact distance of the liquid surface from the sensor can be calculated with high accuracy (±0.125" (3mm) of maximum range). Level/Distance measurements are automatically temperature-compensated throughout the operating temperature range of the sensor.

See the UCL-510 and other Continuous Level Transmitters in Section C.

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UCL-510 Series multi-point switches are designed for easy automatic tank "Hi/Lo" liquid level control. They combine non-contact continuous sensing with four SPST relays; actuation points are field adjustable in a range to 49 inches.