

## Ultrasonic Continuous Liquid Level Sensors

- ▶ Accurate and reliable sensing method
- ▶ Ideal technology for difficult fluids
- ▶ Sized and priced for most applications
- ▶ Easy to install—simple to use

Gems delivers the answer for challenging fluid measurement and monitoring with our new ultrasonic UCL Series Continuous Non-Contact Level Transmitters. These accurate and reliable sensors are designed for the most difficult fluids to monitor — including ultrapure, dirty, coating, scaling 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

**UCL Series Continuous Non-Contact Transmitters:** 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 calculated with high accuracy ( $\pm 0.2\%$  of maximum range). Level/Distance measurements are automatically temperature-compensated throughout the operating temperature range of the sensor.

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