

## WL705 Ultrasonic Water Level Sensor

Non-contact water level measurements.



- Long range, short dead band
- Unaffected by optical factors like color and transparency
- 4-20 ma Transmitter
- Durable sealed housing for wet or dirty applications
- For monitoring water level in tanks and open channel

### Description

The WL705 uses the latest ultrasonic distance measuring technology for accurate non-contact water level monitoring. The sensors contain a rugged transducer in a stainless steel sealed housing for long life and provides an industry standard 4-20 MA output. There are three ranges available including 3 ft, 12 ft, and 48 ft to meet a wide variety of applications. The unique 3 ft range sensor is ideal for measuring flow in small flumes and weirs. The 12 ft and 48 ft ranges are best for measuring river, lake and tank levels and for measuring open channel flow in larger flumes. Installation is simple and requires no programming or calibration. No maintenance is required.

### Specifications

*Ranges:* 0.33 to 3 ft; 0.33 to 12 ft; and 1 to 48 ft

*Resolution:* 0.009 in, 0.035 in, and 0.141 in

*Repeatability:* Greater of  $\pm 0.03$  inches (0.76 mm) or 0.1% of range @ constant temperature

*Accuracy:* Better than 0.5% of range @ constant temperature; affected by temperature gradients, target echo strength, and speed of sound in vapors

*Transducer Type:* Ruggedized piezoelectric

*Beam Angle:* 12° conical shaped pattern

*Power:*

3 and 12 ft range: 10 to 30 VDC @70 mA max

48 ft range: 10 to 30 VDC @40 mA max

*Output:* 4-20 mA (4 mA is minimum water level and 20 mA is maximum water level)

*Update Rate:* 50 ms

*Operating Temperature:* -40 to 158°F (-40 to 70°C)

*Humidity:* 0 to 100% (avoid heavy condensation)

*Housing Material:* 303 stainless steel

*Dimensions:*

3 and 12 ft rng: 4.062 in. long x 1.05 in. dia. (103.2 L x 26.7 Dia mm)

48 ft range: 4.75 inch long x 2.375 inch dia. (121 L x 60 Dia mm)

*Weight:*

3 and 12 ft range: 12.7 oz (0.36 g)

48 ft range: 25.9 oz (0.73 kg)

*IP rating:* IP 68, Nema 4X

*Certifications:* CE

### Options and Accessories

**WL705-003** Ultrasonic Water Level Sensor  
Range up to 3 ft. Includes 6 ft cable.

**WL705-012** Ultrasonic Water Level Sensor  
Range up to 12 ft. Includes 6 ft cable.

**WL705-048** Ultrasonic Water Level Sensor  
Range up to 48 ft. Includes 6 ft cable.

**WEXC** Extra Cable  
Up to 500 ft

Contact  
Global Water  
for all your  
instrumentation  
needs:

Water Level

Water Flow

Water Samplers

Water Quality

Weather

Remote Monitoring

Control