WL705 Ultrasonic Water Level Sensor
Non-contact water level measurements.

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 ±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 range:
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