

WL900 Radar Level Transmitters

Radar level transmitters are ideal for a variety of water and wastewater applications



- Accurate, non-contact measurement
- Works in conditions where ultrasonic is not acceptable
- Pulse radar measurement range 10" to 50"
- Simple push-button calibration
- Standard 4-20mA signal output
- Optional RS485 digital output

Description

The WL900 Radar Level Transmitter offers a logical extension to ultrasonic devices. It is suitable for applications that require non-contact liquid level measurement when ultrasonic level measurement is not acceptable.

Variety of Uses

The WL900 is ideal for a variety of water and wastewater applications involving a reflective liquid that has a foaming surface, vapors, or dusty conditions beyond ultrasonic wave capabilities.

State of the Art Radar Technology

The WL900 uses a state of the art radar pulse technology, which provides accurate and reliable level measurements over a wide 10 inch to 50 foot range. The unit's microwave antenna rod sends out very short pulses, which reflect off a target and are received back by the antenna for processing.

Simple Operation

With its single push-button calibration system, the WL900 is easy to set up and maintain. Simply aim the WL900 at your low range level set point and push the button to lock in the setting— then do the same with the high level set point. This may be done before permanent installation by aiming at a wall and using a tape measure to determine your exact range.

Rugged Design

The unit's rugged NEMA 4 (IP65) housing is available in either aluminum or 316L stainless steel for corrosive environments. A standard 2" NPT (M) process connection allows for quick and versatile installation. In addition, the unit's polypropylene antenna rod is virtually corrosion proof.

Specifications

Power

AC: 115 VAC, 60 Hz (± 20%), 1.7 VA

DC: 12 to 30 VDC, 0.07 Amps max. @ 24 VDC

Outputs

Signal: 4-20 mA, 6.1 uA resolution; 750 ohms

Communication: RS232

Accuracy: ±0.25% of max. target range (in air)

Frequency: 6.3 GHz

Transmitter Power: 50 uW average

Calibration: Push-button or optional programmable

Antenna: Polypropylene over dielectric rod

Beam Angle: 12 degrees

Operating Temp: -40°C to 60°C (-40°F to 140°F)

Operating Pressure: 150 psi max

Installation Category: Class II

Process connection: 2" NPT

Conduit Entry: 1/2" NPT standard

Housing: Aluminum or 316L stainless steel

Ingress Protection: NEMA 4 (IP65)

Approvals: FCC Part 15 - low-power communication device

Weight: 3.6Lbs (1.63Kg)

Dimensions: 4" (10cm) diameter x 18" (45.7cm) long

Options and Accessories

WL900-AC Radar Level Transmitter

Power: 115VAC (60Hz), Enclosure: Aluminum

WL900-DC Radar Level Transmitter

Power: 12 to 30VDC, Enclosure: Aluminum

WL901-AC Radar Level Transmitter

Power: 115VAC (60Hz), Enclosure: Stainless Steel

WL901-DC Radar Level Transmitter

Power: 12 to 30VDC, Enclosure: Stainless Steel

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