



## LIQUID LEVEL TRANSMITTER - ULTRASONIC



### PRODUCT HIGHLIGHTS

- Non-Contact Ultrasonic Level Monitoring Solution with No Moving Parts
- Level Reading Range: 0.3m to 3.4m
- High Resolution of 1mm
- Measures Level, Volume, Tank %, and More
- User Selectable Display Units - US or Metric
- Provides Mounting Solution - Compression Fitting with 3.8cm NPT Male (15cm Adjustability)
- Highly Reliable and Requires Low Maintenance
- Water / Wastewater Application
- Ultrasonic Sensor Included

### WT SERIES FEATURES

- Local Display (Premium 32-Character LCD)
  - Read Process Data, Battery Voltage, RF Strength, and More
  - Configure Device On-Site Without Cables
  - Easy Network Connection Wizard
- Self-Contained, Battery-Powered
- 900 MHz / 2.4 GHz Option (Secure, ISM License-Free)
- Up to 2.3km Wireless RF Range with Clear Line of Sight
- Swappable "Puck" Design - Quick Maintenance Solution
- Serial Interface Also Available for Configuring Device via PC
- User-Friendly BreeZ® Configuration Software
- Intrinsically Safe for Use in Hazardous Areas - Class I; Division 1 (Zone 0)



### APPLICATIONS

- Water/Wastewater

Non-Contact Level Monitoring Solution	Ultrasonic Technology	1mm High Resolution
Local LCD for Instant Read & Configuration	Cable-Free Configuration Option	Secure Local Access
Self-Contained Battery-Powered	Provides Mounting Solution	Class I; Division 1 Intrinsically Safe

### WIRELESS SENSOR NETWORK

- Reliable, Robust Wireless Performance
- Eliminates Costly Conduits and Wiring
- Monitor / Control Process Conditions 24/7
- Reduces Labor, Installation and Maintenance Costs
- Helps Meet Regulatory Requirements
- Industrial Strength Performance and Durability

## INDUSTRIAL WIRELESS AUTOMATION

# TECHNICAL SPECIFICATIONS

## HARDWARE FEATURES

Device Functionality	Liquid Level Sensing Wireless Transmitter Using Ultrasonic Technology Non-Contact Solution / No Moving Parts
Embedded Controller	Ultra-Low Power RISC Microcontroller with Internal FLASH (Field Upgradeable)
User Interface	Standard RS232 Serial, LCD Puck Module
Sensor Type	Ultrasonic; Non-Submersible
Reading Range	Minimum: 0.3m Maximum: 3.7m
Dead Band Zone	30cm
Resolution	High Resolution of 1 mm
Power Source	Self-Contained, Internal 3.6 V Lithium Battery
Internal Battery Life	Up to 10 Years, Based on Usage
Local LCD Display	32-Character Display (16x2 Lines) with 4 Function Keys + Read Button
Instant Displayable Read	Product Level / Battery Voltage / RF Status
Local Configuration	Cable-Free RF Connection and Setting All Device Parameters

## WIRELESS COMMUNICATIONS

Type:	900 MHz - ISM Band, FSK (Frequency-Shift Keying), FHSS (Frequency Hopping Spread Spectrum)
Frequency	902 to 928 MHz
Data Rate	9600 bps / 115.2 kbps
Output Power	10 mW
Receiving Sensitivity	-110 dBm @ 9600 bps or -100 dBm @ 115.2 kbps
Range	Up to 2.3 km with Clear Line of Sight
Type: 2.4 GHz	Optional Version Available, ISM Band, DSSS

## CERTIFICATIONS & COMPLIANCE

EMC/EMI	FCC Part 15 (USA) IC ICES-003 (Canada)
	Class I; Division 1, Groups C, D T3C
Safety	Class II Division 1 Groups E, F, G, T3C
	Class III T3C · Class I Zone 0 AEx ia IIC T3 Ga

## MECHANICAL SPECIFICATIONS

Dimensions	147mm (W) x 513mm (H) x 108mm (D)
Package Dimensions	609mm (W) x 254mm (H) x 153mm (D)
Weight	Net: 1.4 kg; Packaging: 2.2 kg
Mounting Hardware	Direct or Pipe Mount (3.8cm NPT Male Compression Fitting)
Enclosure Casing Material	Type 4X Aluminum; IP66
Sensor	Ultrasonic: Aluminum (Oxidized Surface), PVG, Fluorosilicone

## GENERAL SPECIFICATIONS

Operating Conditions	Ambient Temperature (Class I; Division 1): Transmitter -40 °C to 70 °C; LCD Screen -20 °C to 70 °C Ambient Temperature (Non-Hazardous Applications): Transmitter -40 °C to 85 °C; LCD Screen -20 °C to 70 °C Humidity: 0 to 99 %, Non-Condensing
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Warranty	2-Year Parts and Labour
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## ORDERING INFORMATION

Model Number(s)	900 MHz: WT-0900-LL6; 2.4 GHz: WT-2400-LL6
Wirelessly Connects To	Gateway: Base Unit (WM2000-002) or DH2 (SR5000-DH2) 2.4 GHz Option Available



## BASIC NETWORKING DIAGRAM

