



LIQUID LEVEL TRANSMITTER - HYDROSTATIC WT-0900-LL4/LL5

PRODUCT HIGHLIGHTS

- 1x Analog Input (0-5 Volt, 24-bit ADC) / Accuracy $\pm 0.25\%$ BFSL / User Selectable Display Units (US or Metric)
- Determines Level Measurement by Monitoring Pressure at Bottom Point of Vented Top Mount Tanks, Deep Wells, Water Towers, Rivers, and More
- Provides Level, Volume, Tank Full %, and More
- LL4 - Direct-Mount Version Ships with Fixed Sensor Length and Mounting Solution
- LL5 - Multi-Vendor Version Includes Terminal Block for Easy Wiring and Cable Strain-Relief Solution
- LL5 - Also Provides 1x Discrete Input (For Dry Contact or Open-Drain Output/NPN Device) Normally Open or Normally Closed Input Function On/Off Status Reporting, Transition Count Reporting, On-Delay Exception Reporting
- Designed to Help Meet EPA Spill Prevention (SPCC) and API Inventory Monitoring Requirements

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
- Factory Trade-In Program Available for Non-Local Display Transmitters
- Intrinsically Safe for Use in Hazardous Areas - Class I; Division 1 (Zone 0)

APPLICATIONS

- Oil & Gas, Pipeline, Petro-Chem, Water/Wastewater, Utilities, Irrigation Systems, Mining, SCADA Systems, 3A Sanitary, Food & Beverage, Pharmaceuticals, Biotechnology, and Much More



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|--|-------------------------------------|--|
| Hydrostatic Pressure Level Monitoring | Designed for Vented Tanks and Wells | Cost-Effective Solution for Spill Prevention |
| Local LCD for Instant Read & Configuration | Cable Free Configuration Option | Secure Local Access |
| Self-Contained, Battery-Powered | Up to 23m or Custom Length | 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 Labour, Installation and Maintenance Costs
- Helps Meet Regulatory Requirements
- Industrial Strength Performance and Durability

TECHNICAL SPECIFICATIONS


HARDWARE FEATURES

Device Functionality	Liquid Level Sensing Wireless Transmitter Using Hydrostatic Technology
Embedded Controller	Ultra-Low Power RISC Microcontroller with Internal FLASH (Field Upgradeable)
User Interface	Standard RS232 Serial, LCD Puck Module
Sensor Type	Hydrostatic Pressure, Up to 25 PSI, Wide Operating Temperature Range
Accuracy	< +/-0.25 % BFSL
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	Level / Battery Voltage / RF Status
Local Conguration	Cable-Free RF Connection and Setting All Device Parameters

WIRELESS COMMUNICATIONS

Type:900MHz	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 A, B, C, D T3C
		Class II; Division 1 Groups E, F, G, T3C
SAFETY		Class III T3C
		Class 1 Zone 0 AEx ia IIC T3 Ga
		Class 1 Zone 0 Ex ia IIC T3 Ga

MECHANICAL SPECIFICATIONS

Dimensions, LL4	134mm (W) x TBD (H) x 108mm (D)
Dimensions, LL5	134mm (W) x 325mm (H) x 108mm (D)
Package Dimensions LL4	356mm (W) x 762mm (H) x 177.8mm (D)
Package Dimensions LL5	260mm (W) x 356mm (H) x 165mm (D)
Weight LL4	Net: 1.8 kg Gross: 3.2 kg
Weight, LL5	Net: 3.2 kg Gross: 4.5 kg (Excluding Sensor Weight)
Hardware Connection	LL4: 38mm NPT Male Compression Fitting; LL5:19mm NPT Female
Enclosure Casing Material	Type 4X Aluminum; IP66

GENERAL SPECIFICATIONS

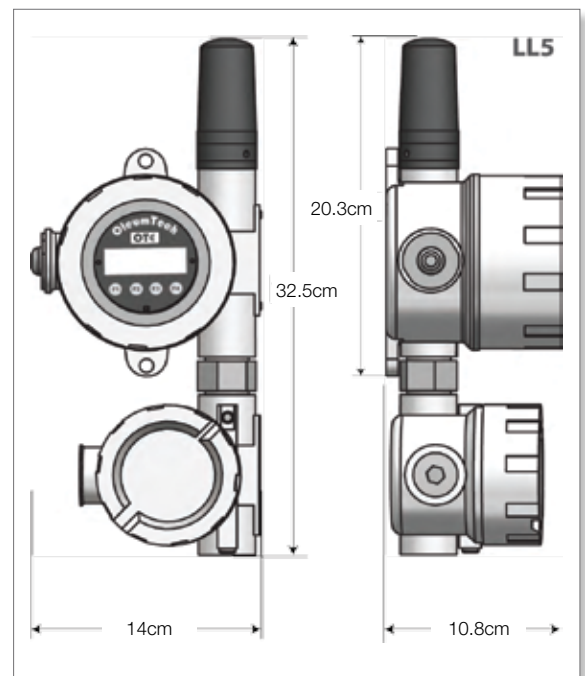
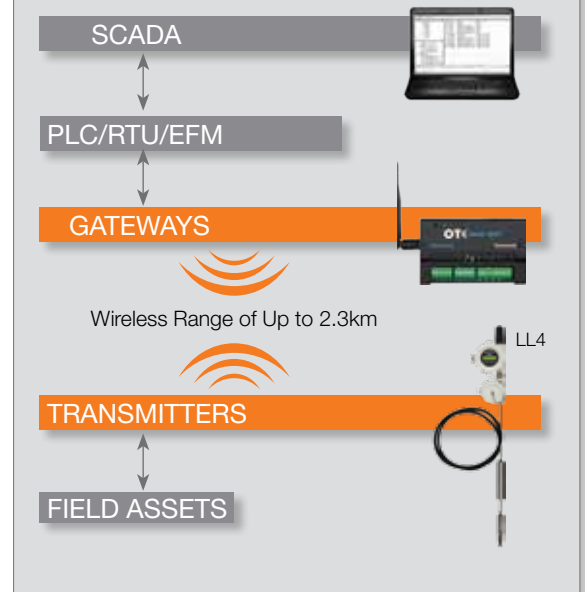
Operating Conditions	Ambient Temperature (Class I; Division 1): Transmitter -40 °C to 70 °C; LCD Screen -20 °C to 70 °C
	Ambient Temperature (Non-Hazardous Applications): Transmitter -40 °C to 85 °C; LCD Screen -20 °C to 70 °C
	Humidity: 0 to 99 %, Non-Condensing
Warranty	2-Year Parts and Labour

ORDERING INFORMATION

Model Number(s)	900 MHz: WT-0900-LL4 / 2.4 GHz: WT-2400-LL4 (Direct Mount) 900 MHz: WT-0900-LL5 / 2.4 GHz: WT-2400-LL5 (Multi-Vendor)
Wirelessly Connects To	Gateway: Base Unit (WM2000-002) or DH2 (SR5000-DH2) 2.4 GHz Option Available
Hydrostatic Sensor	0-5, 0-10, 0-15 PSI Sensor Available (Sold Separately), Requires Sensor Weight



BASIC NETWORK DIAGRAM



Automation Group

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