



WLRI-S43

+Rec -BL
12 VDC



Wireless Liquid Level Sensor

Monitor non inflammable liquid. Simple and easy to install wireless sensor that works with long-range communication to our gateway and platform for immediate notifications of liquid level status.

Features:

- Super Long Range Signal Penetration
- Easy Installation
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF™ Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- Over-the-air updates
- Interactive WatchNET IoT platform with dashboard, search and notification settings



Applications:

- Monitor and track water tank levels
- Monitor no inflammable liquids
- Track non-corrosive fluid levels
- Monitor sump pit water level

Schematic Diagram:



Technical Specifications

Electrical	
Power Supply	Power adapter DC power supply, DC12V/1A
Operating Current 1	80mA (No radio frequency signal transmission)
Operating Current 2	120mA (With radio frequency signal transmission)
Liquid Level Sensor	
Power Supply	12VDC
Liquid Level Sensor Length	3m/9.8ft, 5m16.4ft, 10m/32.8ft...etc. (Confirm before shipment)
Liquid Level Sensor Accuracy	0.25%FS (Typical)
Frequency	
TX Power	19dBm±1dBm
Rx Sensitivity	-136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps) -121dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Built-in antenna
Communication Range	Up to 500m/0.310miles, the actual transmission distance depends on the environment*
Data Transfer Rate	0.3kbps~50kbps
Spread Technique	LoRa/FSK
Available Frequency	EU863-870, US902-928, Configured before shipment
Physical	
Dimension	111mm x 86mm x 41mm / 4.37" x 3.38" x 1.61"
Protection class	Main Part IP40 / External sensor IP65
Environment Temperature Range	-20°C ~ 55°C / -4°F ~ 131°F
Environment Humidity Range	<90%RH
Storage Temperature	-40°C ~ 85°C / -40°F ~ 185°F

* Actual signal range may vary depending on the environment.

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