



WLRC-S59



Noise Sensor for noise level detection from 30 to 130dB

The WLRC-S59 is a wireless communication device that detects the noise. The main unit and the noise sensor communicate via the RS485 connection interface, and it sends detected data to the other device via wireless network with LoRa™ wireless communication protocol standards. The noise sensor adopts a high-sensitivity pickup with stable signal and high precision. It has the characteristics of wide measurement range, good linearity, convenient use, easy installation and long transmission distance.

Features:

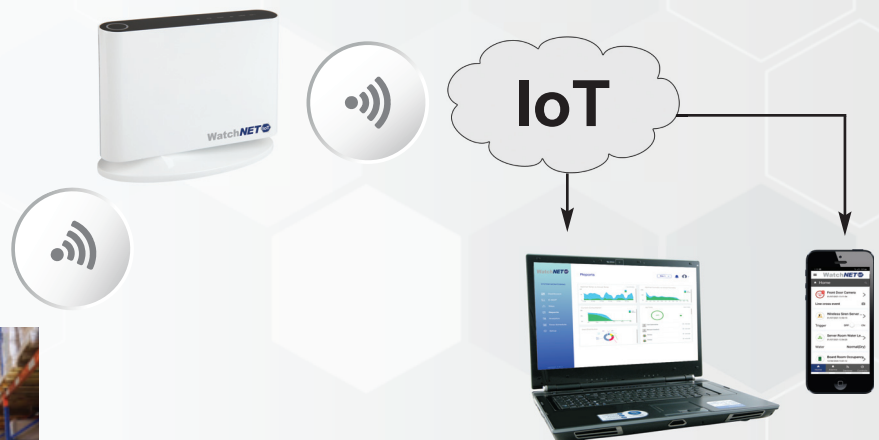
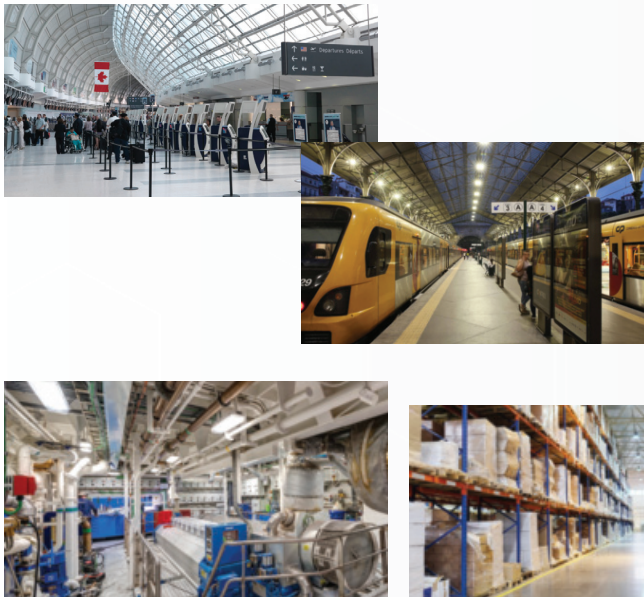
- Super Long Range Signal Penetration
- 12V DC adapter power supply
- Easy Installation
- RS485 communication
- Improved interference immunity
- Interactive WatchNET IoT platform with dashboard, search and notification settings



Applications:

- Noise level detection
- Warehouses, computer rooms, production workshops, archives, libraries, schools, shopping malls, smart homes, building control, airport, railway stations, etc.

Schematic Diagram:



Technical Specifications

Electrical characteristics	
Power Supply	DC 12V adapter power supply
Operating Current	<70mA (external sensor)
* Specific electrical characteristics will vary depending on the power supply voltage	
Noise Sensor Parameter	
Operating Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	15% - 90% (No condensation)
Noise Sensor Dimension	110mm x 85mm x 44mm / 4.33" x 3.35" x 1.73"
Power Consumption (max)	0.4W
Noise Sensor Measurement Range	30dB-130dB
Resolution	0.1db
Measurement Error	3% F.S
Response Time	≤2s
Weighting Curve	A-Weighting
Frequency Response	35Hz-20Khz
Communication Port	RS485
Frequency characteristics	
Frequency range	863MHz-928MHz 470MHz-510MHz
Power Output	20dbm
Receiving 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, (visible linear obstacle-free transmission distance , actual transmission distance depends on the environment)
Data Transfer Rate	LoRa: 0.3kbps ~ 50kbps FSK: 1.2kbps ~ 300kbps
Modulation System Mode	LoRa/FSK (Note: choose one of them)
Available Frequency	EU863-870, US902-928, Configured before shipment
Physical characteristics	
Main unit size	Main part: L: 112 mm x W: 88.19 mm x H: 32 mm / 4.41" x 3.47" x 1.26" Noise Sensor: L: 110 mm x W: 85 mm x H: 44mm / 4.33" x 3.35" x 1.73" Noise Sensor Waterproof (white) - D: 19.5mm x L: 30.3mm / 0.77" x 1.19" - M12*1.5 (Screw Thread)
Ambient temperature range	-20°C ~ 55°C / -4°F ~ 131°F
Protection class	Main Part IP65
Main unit weight	160g / 0.353lb
Environment Humidity Range	<90%RH (No condensation)
Storage Temperature	-40°C ~ 85°C / -40°F ~ 185°F



* Actual signal range may vary depending on the environment.

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August 12, 2022

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