

LoRaWAN Sound Level Sensor

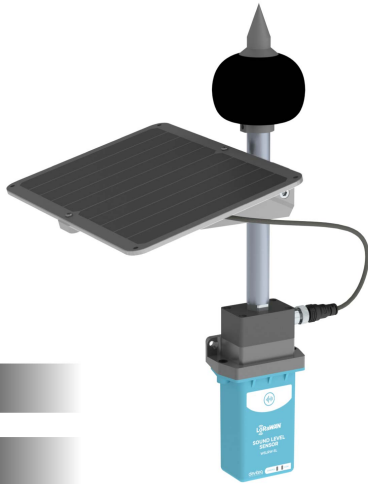


Smart Agriculture, Smart Building, Smart City, Smart Facility, Smart Farm, Smart Factory, Smart Transportation

SKU: WSLRW-SL



LORAWAN SOUND LEVEL SENSOR WSLRW-SL



WSLRW-SL is a LoRaWAN noise sensor with a measuring range of 30-120 dB(A) for residential, office, factory, construction sites, and public areas... Capacitive technology has high sensitivity, accuracy, and stability. LoRaWAN connectivity enables kilometer-long data transmission to LoRaWAN Gateways. With an ultra-low power design and intelligent firmware, the sensor can operate for up to 10 years with only 2 AA batteries (depending on configuration), or use solar panels for applications of continuous monitoring. The device supports all LoRaWAN bands worldwide.

Applications

Ambient Air Quality Monitor, Facility Monitoring, Machine Health Monitoring, Safety Monitoring

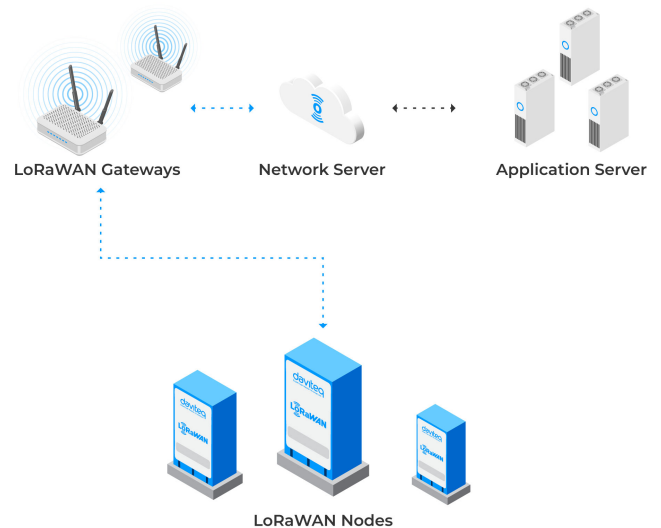
Notes For Applications

Sensitivity: Match to environment (high for quiet, low for noisy).
Frequency Response: Ensure required range (e.g., 20 Hz–20 kHz for audio).
Environmental Protection: Dust/moisture sealing, EMI shielding for harsh conditions.



- ✔ **Wide frequency range**
Allows measurement from 20-12,500 Hz
- ✔ **LoRaWAN Communication**
Support Worldwide LoRaWAN® frequency bands
- ✔ **10-Year battery**
Use batteries for up to 10 years, or use solar panels for continuous monitoring applications.
- ✔ **For Outdoor**
Designed to be installed both indoors and outdoors

SYSTEM ARCHITECTURE LoRaWAN



DAVITEQ TECHNOLOGIES INC

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Created date: Dec-21-2022

Updated date: May-18-2026

Specification

Measuring range	30~120dB(A)
Frequency range	20~12,500Hz
Resolution	0.1dB(A)
Accuracy	±0.5dB(A) at 94dB(A) and 1kHz
Working temperature	-20~60°C
Working humidity	0~80% RH
COMMUNICATION	
SF Factors	SF7~SF12
Antenna	Internal Antenna 2.0dbi
Power Supply	02 x AA size 1.5VDC, battery not included for Primary Battery version OR solar panel (buy separately) with 2 x Panasonic® Eneloop™ standard batteries (customer to supply). Solar panel version is powered by 6..9VDC solar panel or DC supply via M12 connector.
RF Frequency and Power	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN Class A V1.0.3
Data sending modes	interval time, and manually triggering by magnetic key
CE and FCC	Yes
Working temperature	-40~60°C (with AA L91 Energizer®). Rechargeable battery version can only be recharged at ambient temperature higher than +5°C.
Dimensions	please check dimension drawings
Net-weight	< 300g (main device only, not included solar panel and batteries)
Housing	Aluminum + Polycarbonate plastic, IP67

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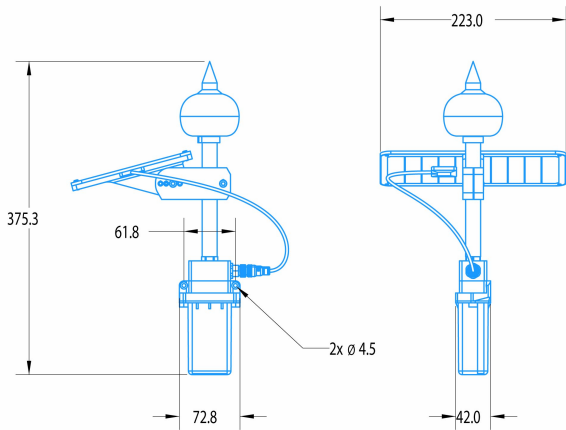
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LORAWAN SOUND LEVEL SENSOR
WSLRW-SL



DIMENSION DRAWING OF WIRELESS NODE (Unit: mm)

RECOMMENDED BATTERIES FOR LoRaWAN SENSOR
POWERED BY SOLAR PANEL

AA RH6 Rechargeable Battery

AA NIMH Rechargeable Battery

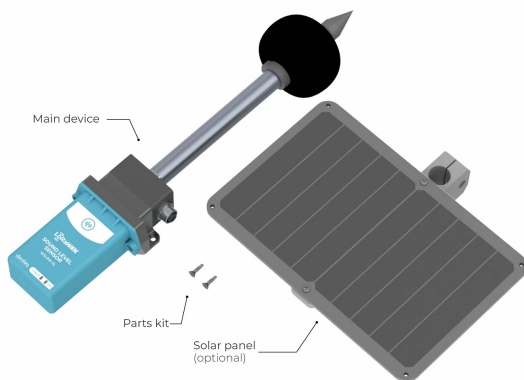


-20 .. +50°C working temperature
2000 mAh Capacity

-20 .. +50°C working temperature
2000 mAh Capacity

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LORAWAN SOUND LEVEL SENSOR
WSLRW-SL



STANDARD PRODUCT PACKAGE

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Ordering Information

ITEM CODE	DESCRIPTIONS
WSLRW-SL-01	LoRaWAN Sound Level Sensor, 20 - 12,500 Hz, 30-120 dB(A), AA batteries, IP67
WSLRW-SL-01S-OP	LoRaWAN Sound Level Sensor, 20 - 12,500 Hz, 30-120 dB(A), Solar panel/External power supply powered, with Outdoor Protector
SOLAR-PN-5W6V-ETFE-M12M-20-PIPEMNT	Solar panel, 5W/6V, ETFE Coated, M12-M connection, 20cm cable, tilt adjustment, 18mm OD Pipemount

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