

# LoRaWAN Sound Level Sensor



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

SKU: WSLRW-SL

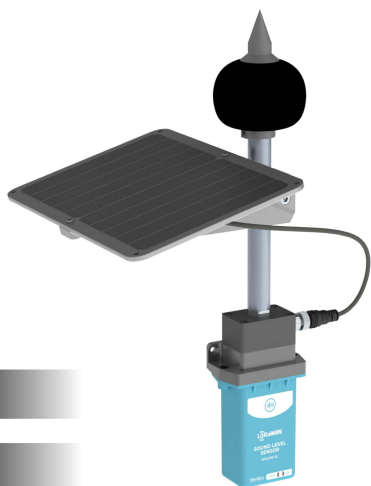


Safe Zone



Hazardous Zones

## LORAWAN SOUND LEVEL SENSOR WSLRW-SL



LoRaWAN

10-Year



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

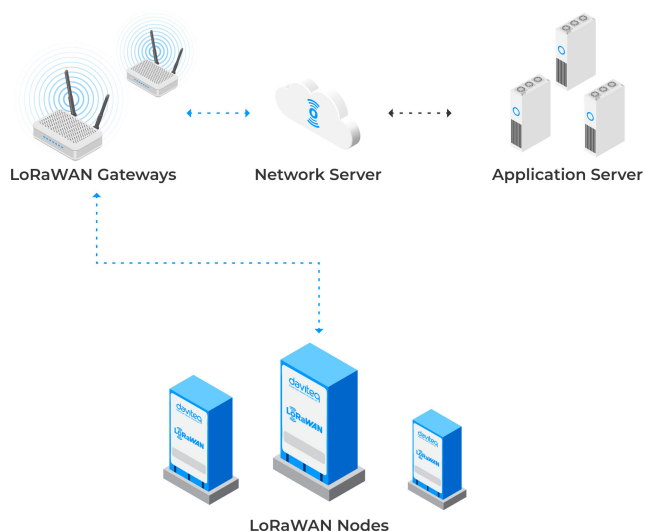
Use batteries for up to 10 years, or use solar panels for continuous monitoring applications.



### 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: Jan-05-2026


## 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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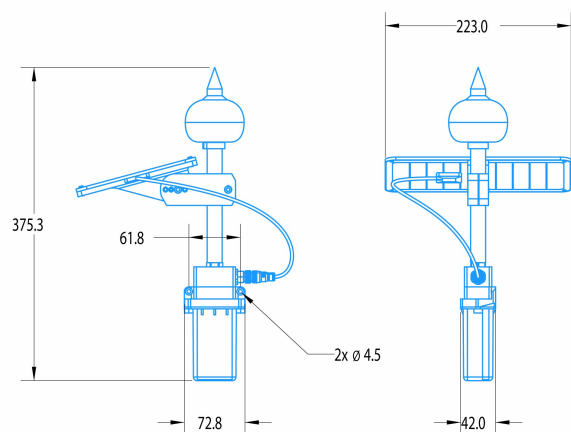
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### LORAWAN SOUND LEVEL SENSOR WSLRW-SL



DIMENSION DRAWING OF  
WIRELESS NODE (Unit: mm)

### RECOMMENDED BATTERIES FOR LoRaWAN SENSOR POWERED BY SOLAR PANEL

AA RH6 Rechargeable Battery



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

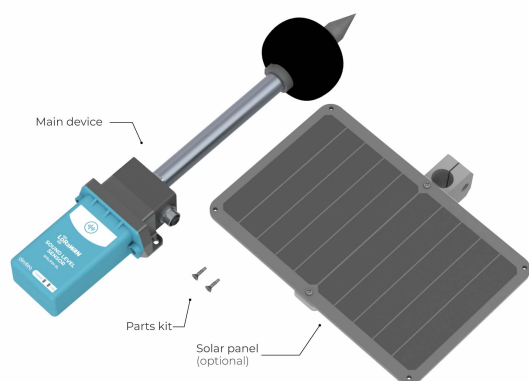
AA NIMH Rechargeable Battery



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

WSLRWAG-H11.JPG

### 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, 31.5 - 8000 Hz, 30-120 dB(A), AA batteries, IP67
WSLRW-SL-01S-OP	LoRaWAN Sound Level Sensor, 31.5 - 8000 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