



## Sound Level Sensor (WS302)

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### Solution

The WS302 sound level meter offers advanced and accurate decibel (dB) readings. Simple and lightweight, it can be discreetly screwed or taped in place. The reader reports 3 types of sound level: current sound level, equivalent continuous sound level and maximum sound level. Data is transmitted in real time using the long-range LoRaWAN protocol.

### LoRaWAN

The LoRaWAN wireless communication protocol can operate over very long distances, even through the massive structures of institutional or industrial establishments.

### Benefits

Allows you to accurately measure noise levels in real time.  
Personalized alerts in real time.

### Features

- Sound pressure levels: current (SPL, Lp), equivalent continuous (Leq) and maximum (Lmax).
- Data transmission at a customizable interval (10 minutes by default).
- A or C frequency weighting.
- Measurement from 30 to 120 dBA (or dBC).
- LoRaWAN Wireless Connection.
- Battery life up to 4 years.
- Dimension: 6,8 × 6,5 × 2,05 cm.

# Data sheet

## WS302

<b>Wireless Transmission</b>	
Technology	LoRaWAN
Scope	Up to 16 km in rural areas Up to 5 km in urban areas
<b>Measurements</b>	
Range	30 dBA to 120 dBA, 35 dBC to 20 dBC
Accuracy	± 3 dB (0°C to +45°C)
Resolution	0.1 dB
Frequency Range	30 Hz to 8 kHz
Frequency Weighting	A and C weighting
Unit of Measurement	dBA or dBC
<b>Physical Characteristics</b>	
Dimension	68 × 65 × 20.5 mm (2.68 × 2.56 × 0.81 po.)
Materials & Colors	PC + ABS, White
Installation	On the flat surface with screws or double-sided tape
Button	1 × Power Button + 1× Reset Button
LED	1 × LED Status/Alarm Indicator
<b>Environment</b>	
Operating Temperature	-20°C to +60°C
Relative Humidity	≤95% (non-condensing)
Ingress Protection	IP30
<b>Power supply</b>	
Batteries	2 × 2700 mAh ER14505 Li-SOCI2
Lifespan *For transmission interval of 10min	More than 4 years if fast time weighting is disabled. Greater than 1.5 years if fast time weighting enabled
<b>Compliance</b>	
	FCC, CE, RoHS