

# Sound Level Sensor

DOC ver.: BQW\_03\_0024.001



## Features

- EU, US frequency support
- LoRaWAN 1.0.3
- MEMS microphone
- Resolution: 1 dB
- Measuring range: 40~100dB(A)
- Frequency Response: 100~10,000 Hz
- 0 to 50°C operation temperature range

The Sound Level Sensor utilizes LoRaWAN connectivity to provide to easily measure and investigate sound levels in decibels (dBA) in a variety of building environments.

## Specification

Frequency	868MHz & 915MHz
RF TX power	US: +19dBm EU: +17dBm
Antenna Gain	-2dBi Peak, -5dBi Avg
RF Sensitivity	-135dBm
Battery Type	3.6V ½ AA Li-SOCl <sub>2</sub> , 1200mAh
Battery Lifetime*	Up to 16 months
Average Current	135mA maximum / 100uA minimum
Protocol	LoRaWAN 1.0.3
Operation Temperature	0 to 50°C
Environmental Rating	IP40 equivalent
Dimensions	50mm x 20mm x 50mm
Weight	30g without battery 40g with battery
Measuring range	40~100dB(A)
Frequency Response	100~10,000 Hz



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SKU Detail			
SKU	Country	Channels	Frequency Band (MHz)
TBSL100-868	Europe	8	EU868 (862~870)
TBSL100-915	USA	16	US915 (902~928)
* Samples are also available for IN865, AS923, AU915, KR920.			