

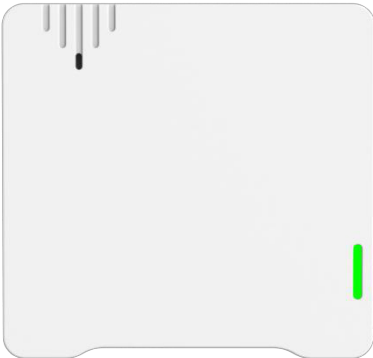
LINOVISION

IOT-S500NOIS

LoRaWAN® Sound Level Sensor

DATASHEET

Updated on July. 8, 2022



IOT-S500NOIS is a LoRa sound level sensor with integrated microphone.

It can not only measure a wide range of noise levels and send various kinds of noise level values via LoRaWAN[®] network, but also supports multiple weighting measurements for different application scenarios. Compliant with Linovision LoRaWAN[®] gateway and Linovision IoT Cloud solution, users can manage all sensor data and trigger other sensors or appliances easily via webpage or mobile App remotely.

IOT-S500NOIS can be widely used in smart buildings, smart cities, schools, health monitoring, etc.

◆ Features

- Support multiple weighting measurements to suit different scenes: A weighting, C weighting, fast weighting
- Support measuring various kinds of values to judge the sound level accurately: actual value, equivalent continuous value and max value
- Equipped with an LED indicator to indicate threshold alarms
- More than 4 years battery life
- Built-in NFC for easy configuration
- Compliant with standard LoRaWAN[®] gateways and network servers
- Quick and easy management with Linovision IoT Cloud solution

◆ Specifications

Wireless Transmission	
Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A
Measurement	
Range	30 dBA to 120 dBA, 35 dBC to 120 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 (Software Switchable)
Time Weighting	Fast Weighting
Measurement Unit	SPL Actual, Leq, Lmax
Others	
Configuration	NFC
Button	1 ×Power/Reset Button
LED	1 ×Status/Alarm Indicator
Physical Characteristics	
Power Supply	2 ×2700 mAh ER14505 Li-SOCl ₂ Replaceable Batteries
Battery Life*	Over 4 Years (Fast time weighting disabled) Over 1.5 Years (Fast time weighting enabled)
(10 min interval)	
Operating Temperature	-20°C to +60°C
Relative Humidity	≤95%(Non-condensing)
Ingress Protection	IP30
Dimension	68 ×65 ×20.5 mm (2.68 ×2.56 ×0.81 in)
Material & Color	PC+ABS, White
Installation	On the flat surfaces with screws or 3M tapes

* Tested under laboratory conditions and for guideline purposes only.