

AI-Powered

Smart City Ecosystem



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Noise Sensor Module

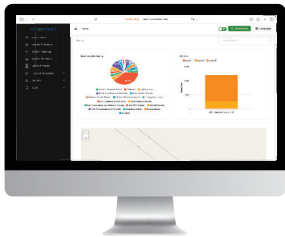
ZS-NSM01

The ZenoSmart LoRaWAN Noise Sensor Module performs noise measurements in various environments and transmits the data to the monitoring center via LoRaWAN and gateway. Its IP67 design ensures long-range transmission and low power consumption.

Operates with a 3.6V 19A battery and transmits data via LoRaWAN Gateway. The data transmission interval is adjustable, with monitoring and reporting available through zenosmart.com. The sensor helps create quiet environments in cities and ensures safe working conditions in workplaces.

Communication Range	2500m ¹
Sensor Feature	Noise Measurement: 30-120 dB (20 Hz – 12.5 kHz)
Power	3.6V 19000mAh
Frequencies	EU433 – KR920 – US915 / EU868 – AS923 – AU915
Connections	LoRaWAN ¹ Bluetooth ²
Monitoring	Web and Mobile-Based Remote Monitoring
Dimension	(L×W×H): 154 × 67 × 60 mm

1. The range may vary depending on the gateway antenna gain and geographic conditions.
2. Bluetooth is offered as an optional feature based on preference.



You can manage your noise monitoring through our web management platform at zenosmart.com or via your own servers.

Installation

The noise sensor connects to the nearest LoRaWAN, Wi-Fi, or LTE gateway upon battery installation and transmits data to the IoT server. Its operating temperature range is between -20°C and 60°C.

Usage

The sensor is 100% waterproof with an IP78 rating and offers up to 10 years of battery life using a 3.6V 19A Alkaline battery. Depending on the antenna power, geographic conditions, and installation height, the LoRaWAN wireless communication range can reach up to 2.5 km.