

AI-Powered

Smart City Ecosystem



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Soil pH Sensor

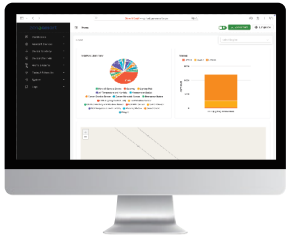
ZS-SPH01

The Zenosmart LoRaWAN Soil pH Sensor measures soil pH and temperature and transmits the data to cloud platforms. Its IP68 waterproof probe ensures high accuracy and stability, and it can be buried in the soil for long-term use

Insert the battery and place the probe into the soil to enable data transmission via the LoRaWAN Gateway. Data can be monitored from the IoT server, and the transmission frequency can be adjusted. With low power consumption, agricultural fields and soil moisture can be efficiently managed. The module helps optimize fertilizer usage with accurate pH measurements, preventing economic losses and environmental pollution

Communication Range	800m ¹
Sensor Features	Soil pH
Power	3.6V 19000mAh
Frequencies	EU433 - KR920 - US915 /EU868 - AS923 - AU915
Connections	LoRaWAN ² Bluetooth
Monitoring	Web-Based Remote Monitoring
Dimensions	(H×W×D): 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 agricultural applications either through our web management platform at zenosmart.com or via your own servers

Installation

When the soil pH sensor's battery is inserted, it connects to the nearest LoRaWAN gateway and starts sending data to the IoT server. The operating temperature is between -20°C and 60°C

Usage

The sensor offers IP67 waterproof protection, up to 10 years of battery life depending on usage, and a LoRaWAN range of up to 800 meters