

ZS-SHECO1

Soil Moisture and Conductivity Sensor





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The Zenosmart LoRaWAN Soil Moisture and EC Sensor measures soil moisture and electrical conductivity, providing data for your irrigation processes and transmitting it to the LoRaWAN IoT server. This helps streamline your automated irrigation systems.



ZenoSmart operates with the LoRaWAN Gateway simply by connecting the cables. It can be configured via the IoT interface, and the data transmission frequency can be adjusted. Monitoring and reporting can be done through ZenoSmart.com. Large areas can be managed using LTE or Wi-Fi Gateways, and connection to the Helium network is possible. Soil EC and moisture sensors enable water savings and efficient agricultural management.

Communication Range	800m ¹
Soil Moisture and Conductivity	(25 °C) (0-20.0EC) 0-20000us / cm
Power	3.6V 19000mAh
Frequencies	EU433 - KR920 - US915 /EU868 - AS923 - AU915
Connections	LoRaWAN [®] ²
Monitoring	Web-Based Remote Monitoring
Dimensions	(H×W×D): 154 × 67 × 60
Resolution and Accuracy	1 uS/cm %2 FS

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 soil monitoring and irrigation either through our web management platform at zenosmart.com or via your own servers

Installation

When the soil EC moisture 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 and up to 10 years of battery life depending on usage. The LoRaWAN wireless range can reach up to 800 meters, depending on antenna power and geographic conditions