

## High Accuracy & Fast Response Speed Integrated Soil Sensor

### Overview

The BS-S7 is a high-precision, multi-parameter soil sensor designed for real-time monitoring of soil nutrients (NPK), pH, electrical conductivity (EC), moisture, temperature, and humidity. It delivers accurate measurements, rapid response, and stable signal output, making it ideal for precision agriculture and environmental monitoring.

Built to withstand long-term burial, the sensor features vacuum potting, full waterproofing, and excellent resistance to electrolysis and corrosion, ensuring reliable performance in harsh and variable soil conditions.

### Features

- ✓ High Precision Agriculture Sensors, Rapid Response, Good Exchange Ability
- ✓ Good Tightness, Corrosion Resistance, the Soil Tester can be used in the Soil for a Long Time
- ✓ Flame retardant epoxy resin curing, completely Waterproof, the Soil Tester can Withstand Strong External Impact
- ✓ Steel Needles are Made of High Quality Materials that can Withstand Long-Term Electrolysis, Acid and Alkali Corrosion in Soil

### Applications

- ✓ Agricultural Irrigation
- ✓ Grass Farm
- ✓ Soil Testing
- ✓ Greenhouse
- ✓ Environmental Monitoring
- ✓ Water Conservation

## Integrated Soil Sensor Parameters

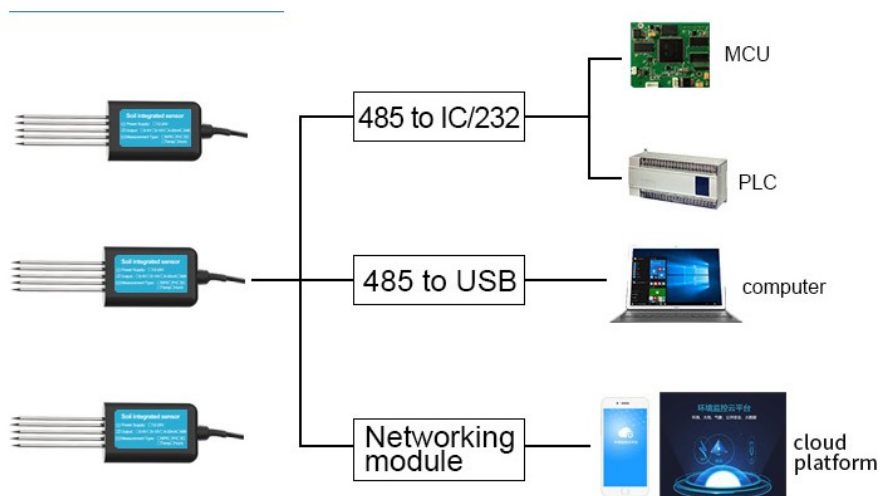
Item	Specification
Power Supply	12-24V DC
Output Signal	RS485/4G/NB-IoT/ LORA
Protection Level	IP68
Temperature Measuring Range	-45°C ~ 115°C
Moisture Measuring Range	0-100%RH
PH Measuring Range	3-9PH
NPK Measuring Range	0-1999mg/kg
EC Measuring Range	0-10000us/cm
Temperature Precision	±0.5°C
Moisture Precision	±3% in 0-53% range; ±5% in 53 - 100% range
PH Precision	±0.3PH
NPK Precision	2% F.s
EC Resolution	10us/cm
Response Time	< 1s

## Product Wiring Method

### • RS485



### • Topology



For comprehensive details, visit: [www.buraq.com/BS-S7](http://www.buraq.com/BS-S7)