

Portable soil detector

Model ES-S2270



Introduction

ES-S2270 portable soil detector adopts the latest digital integrated circuit technology and international testing technology to design a new intelligent hand-held detector.

The detector adopts digital tube backlight display, can display reading in real time, can still read clearly under weak light condition, and the detection circuit designed by digital chip of international large factory can achieve very high sensitivity and excellent repeatability. The shell adopts the industrial special high strength composite plastic, the strength master feeling is good, also has the waterproof, dustproof and explosion and so on function.

Through the detection of data to improve the soil, so that crops in the best living environment, thereby increasing yield, and greatly facilitate the customer system to assess the soil situation.

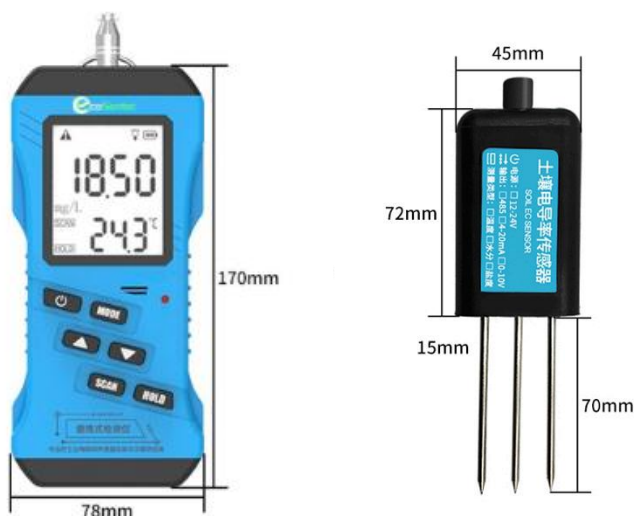
Main features

- Plug and play, no reagent
- Backlight display, simple operation
- Data measured accurately grasp soil fertility 3 inch TN LCD with back light and clear reading in low light
- Support measuring soil moisture, temperature, conductivity, PH, Nitrogen, Phosphorus and Potassium

Application

- Soil moisture monitoring
- Scientific experiments
- Water-saving irrigation
- Greenhouses
- Flowers and vegetables
- Grassland pastures
- Plant cultivation
- Fine agriculture

Dimension



*The number of needles may vary depending on the measurement parameters

Specification

Power supply	1.5V (3 AA batteries) standard	
Display mode	3 inch TN LCD screen	
Working temperature	-20°C~50°C	
Working humidity	90% (relative humidity) non-condensing	
Soil conductivity	Range	0-10000us/cm
	Resolution	10us/cm
	Accuracy	± 3% in the range of 0-10000 US / cm; ± 5% in the range of 10000-20000 US / cm
Soil moisture	Range	0-100%
	Resolution	0.1%
	Accuracy	(within 0-50%)2%, (within 50-100%)3%
Soil temperature	Range	-40~80°C
	Resolution	0.1°C
	Accuracy	±0.5°C
Soil PH	Range	3-9PH
	Resolution	0.1PH
	Accuracy	±0.3PH
Soil NPK	Range	0~1999mg/kg
	Resolution	1mg/kg
	Accuracy	±2%F.S
Communication method	RS485,Modbus serial communication protocol	
Responding speed	<3s	
Size	170*93*29mm	

Order guide

ES-S2270	Portable soil sensor	
	CODE	Function type
	A	Soil humidity
	B	Soil temperature
	C	Soil conductivity (EC)
	D	Soil PH
	E	Soil nitrogen (N)
	F	Soil phosphorus (P)
	G	Soil potassium (K)
ES-S2270	ABC	Order example