NPKPHCTH-HMI043 7 in 1 Rapid Soil tester



Features

- 1. Plug and play testing, Rapid measure soil Temperature, humidity (Moisture), conductivity (EC), PH, Nitrogen (N), Phosphorus (P), Potassium (K).
- 2. 4.3" LCD touch screen easy to operate, display real-time value, curve, logs, can set calibration on screen
- 3. Inside 5000mA rechargeable lithium battery, can continuously operate for 48 hours, come with AC110/220V to DC12.6V charger
- 4. Support 1900 logs, settable interval of logging, can export logs to SD card, come with 1GB SD card
- 5. Sensor cable length is 2m, can extend

Soil parameters measuring

Temperature	Measuring range: -40 °C -80 °C
'	• Accuracy: ±0.5℃ (25℃)
	Long-term stability: ≤0.1% °C/y
	Response time: ≤15s
Humidity	Measuring range: 0-100%RH
	Accuracy: 3% within 0-50%, 5% within 50-100%
	Long-term stability: ≤1%RH/y
	Response time: ≤4s
Conductivity (EC)	Measuring range: 0-20000us/cm
,	• Accuracy: 0-10000 us/cm range is $\pm 3\%$; 10000-20000 us/cm range is $\pm 5\%$
	Long-term stability: ≤1%uS/cm
	Response time: ≤1s
PH	Measuring range: 3-9 PH
	Accuracy: ±0.3PH
	Long-term stability: ≤5%/year
	Response time: ≤10S
Nitrogen	Measuring range: 1-2999 mg/kg(mg/L)
Phosphorus	Resolution: 1 mg/kg(mg/L)
Potassium	Response time: <1S

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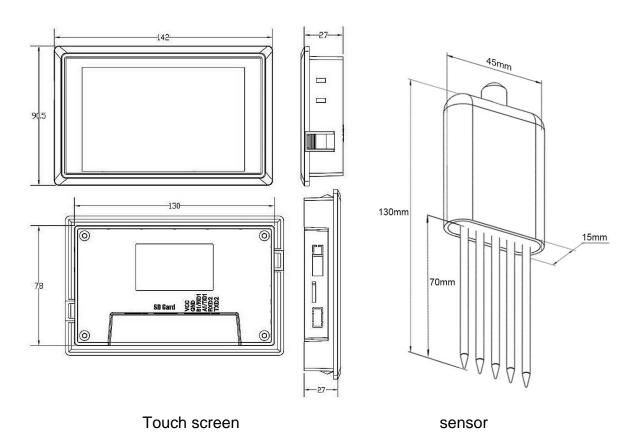
Reminder of measuring

- 1. NPK is measured using general rapid detection methods, which have certain errors and should be used with caution for planting reference. Existing electronic measurement methods cannot accurately measure NPK, it only displays the trend of NPK, just for reference.
- 2. Probes are inserted in the soil for more than 2 minutes to measure the accurate value (PH need 5 minutes)

Specification

Power supply	DC12.6V
Max Power consumption	2W
Screen	4.3" TFT LCD
Resolution (PX)	480X272
Operating environment	-10°C-50°C / 10~90%RH
Screen dimensions	142*70.5*27mm
Inside battery	5000mA rechargeable lithium battery
SD card	1GB
Weight	1KG

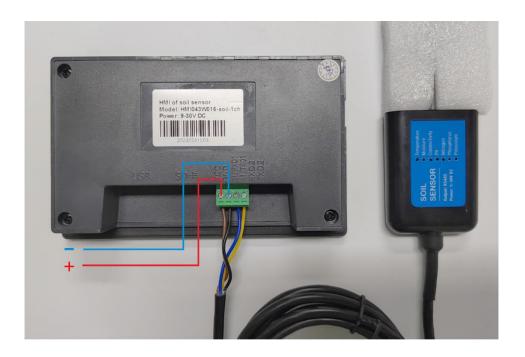
Size



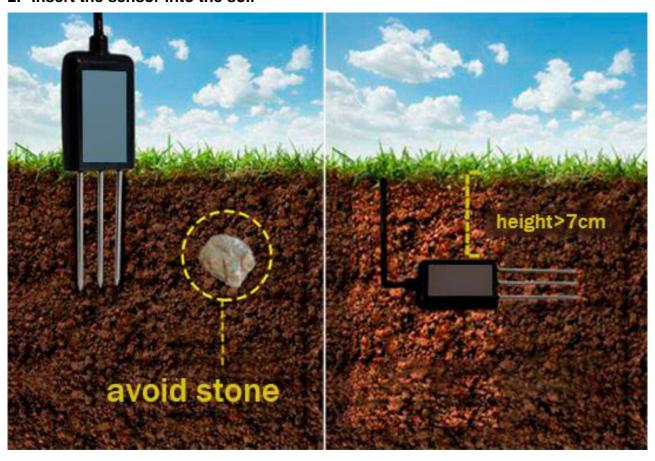
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Equipment operating

1. Connect sensor



2. Insert the sensor into the soil



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3. Operating on screen



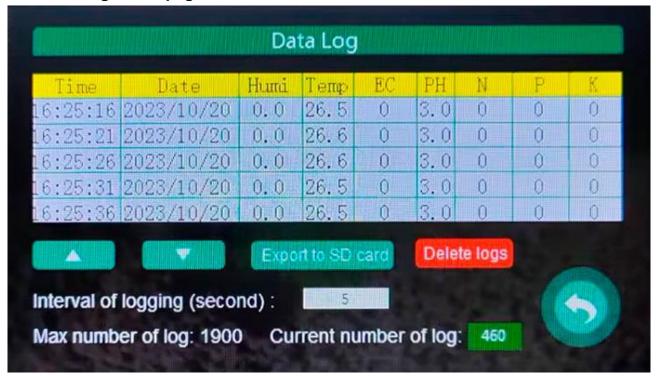
Curve graph page



Click button to switch the curve graph of each parameter (TH, PH, EC and NPK)

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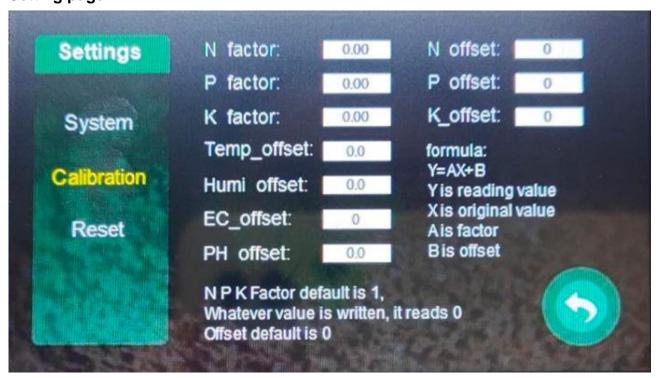
View data log in this page



Interval of logging means how often the device logs data

Max number logs is 1900, logs can be deleted or export to SD card by pressing button.

Setting page



In calibration page, can set factor and offset for each measuring parameters.

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