

Product function introduction

The handheld measurement platform developed and designed by our company. The detector uses a large-size full-color LCD display that can display the readings in real time. At the same time, it uses the detection circuit designed by the digital chip of a major international manufacturer, and the shell is made of industrial-specific high-strength composite plastic. High strength and good feel. This detector is widely used in petrochemical, environmental protection, metallurgy, mining, agricultural Industry, experiment, surveying and mapping.



Features: Rich man-machine interface, full-color interface designed based on the latest embedded thinking, can query, record, and display data in real time. It can detect the values of PH, NPK, conductivity, temperature and humidity.



One test four items

Spend less money and do more things

Product advantages

Automatic alarm cancellation, backlight power saving

When the detected value exceeds the alarm value set by the user, the device will alarm and remind in time, Press the alarm cancel button to cancel the alarm; when the user is not using the device, press the backlight button, Can save equipment power.



Large size display, large capacity storage

We can store **200,000** pieces of data, and we can adjust and set the time interval for data recording. The setting range is **[5 seconds to 24 hours]**, and the corresponding data can be viewed according to the date and time.



Plug and measure data real-time display

Insert the sensor into the soil, and the measurement results can be displayed in a few seconds, which is simple and convenient, without reagents. Different soil parameters can be measured by replacing the sensor without purchasing other display instruments, which greatly reduces the customer's use cost and is also convenient for users to measure.



RFID identification



Data local view



4G network cloud platform view



*This device is battery powered

4G reporting cloud platform

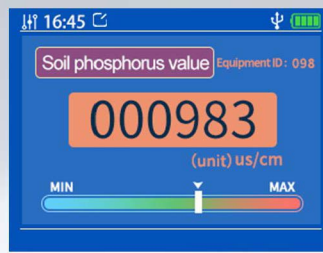
Upload to the cloud platform at the specified frequency



*Optional function

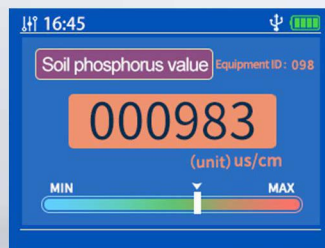
Multiple recording methods are available

- 1 Single-point recording: Press to record the current sensor data, which can assist scientific researchers to record in the desired way and set how often to collect data.

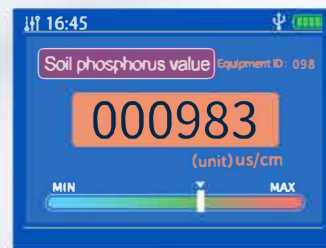


Single point recording interface

- 2 Start recording/stop recording: Press the start recording key to start measurement within a period of time; press the stop recording key to stop recording sensor data and save it to the memory.
- 3 停止记录

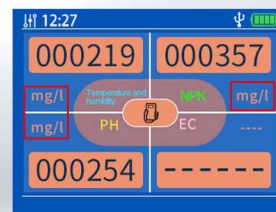


Start recording interface



Stop recording interface

- 7 单位切换 Unit switch: press to switch the unit (eg mg/kg <=> mg/l)



Unit switching interface

Measuring different parameters

Just replace the sensor

- Temperature and humidity
- PH
- NPK
- Conductivity

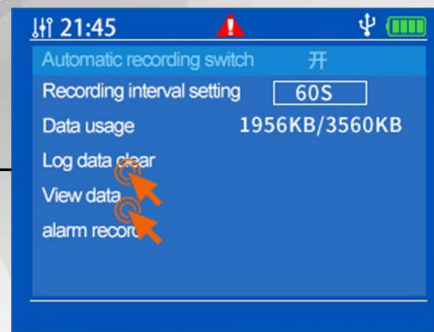


View data one by one

The user can view the detected data one by one in real time, which is simple and convenient.



Menu interface



System setting interface



View data interface



Alarm record interface

One-click data export, convenient and fast

You can use the D-type data interface connector (DB9) to connect to the USB to save the data to the computer and generate reports.

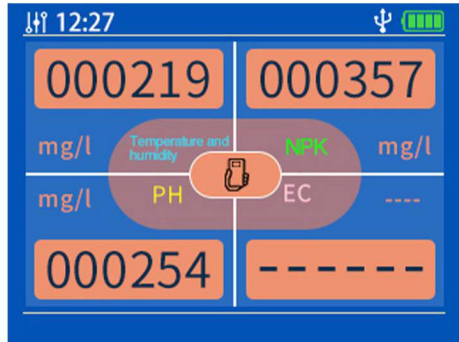


8L00L812	玫瑰花	2019/11/26	8:01:25	EC	94.4 us/cm	N	94.4 us/cm
8L00L812	玫瑰花	2019/11/27	8:00:32	EC	95.6 us/cm	N	95.6 us/cm
8L00L812	玫瑰花	2019/11/28	8:02:11	EC	89.6 us/cm	N	89.6 us/cm
8L00L812	玫瑰花	2019/11/29	7:58:46	EC	90.6 us/cm	N	90.6 us/cm
8L00L812	玫瑰花	2019/11/30	8:01:19	EC	98.3 us/cm	N	98.3 us/cm
8L00L812	玫瑰花	2019/12/1	8:01:01	EC	98.9 us/cm	N	98.9 us/cm
8L00L812	玫瑰花	2019/12/2	8:01:20	EC	99.3 us/cm	N	99.3 us/cm
8L00L812	玫瑰花	2019/12/3	8:01:14	EC	98.6 us/cm	N	98.6 us/cm
8L00L812	玫瑰花	2019/12/4	8:02:08	EC	98.3 us/cm	N	98.3 us/cm
8L00L812	玫瑰花	2019/12/5	8:02:25	EC	97.8 us/cm	N	97.8 us/cm

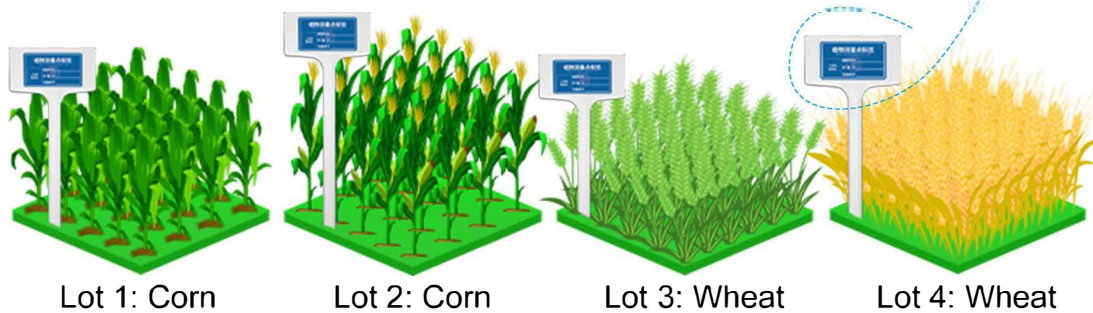
Added dual scan function

Sweep Land plot RFID tags

Swipe to quickly retrieve the current area parameter parameter query is simple and efficient.



Measured data of the corresponding plot c



SECOND SWEEP

Product traceability QR code

Product traceability Only the mobile phone scans the label QR code, which is suitable for entering the market with the product or visiting the park. The traceability system can realize big data collection.



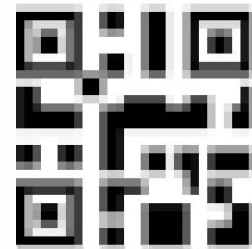
Product carousel display

Important information

Name, production date, etc.

Five traceable information

Basic information Video information
 Production process Inspection information
 Environmental information



Scan code experience

(Mobile phone users long press to save the QR code)
 (Use VXA/Alipay to scan the QR code of the picture)

The product traceability system is a customized function, please contact customer service if necessary.

Product structure

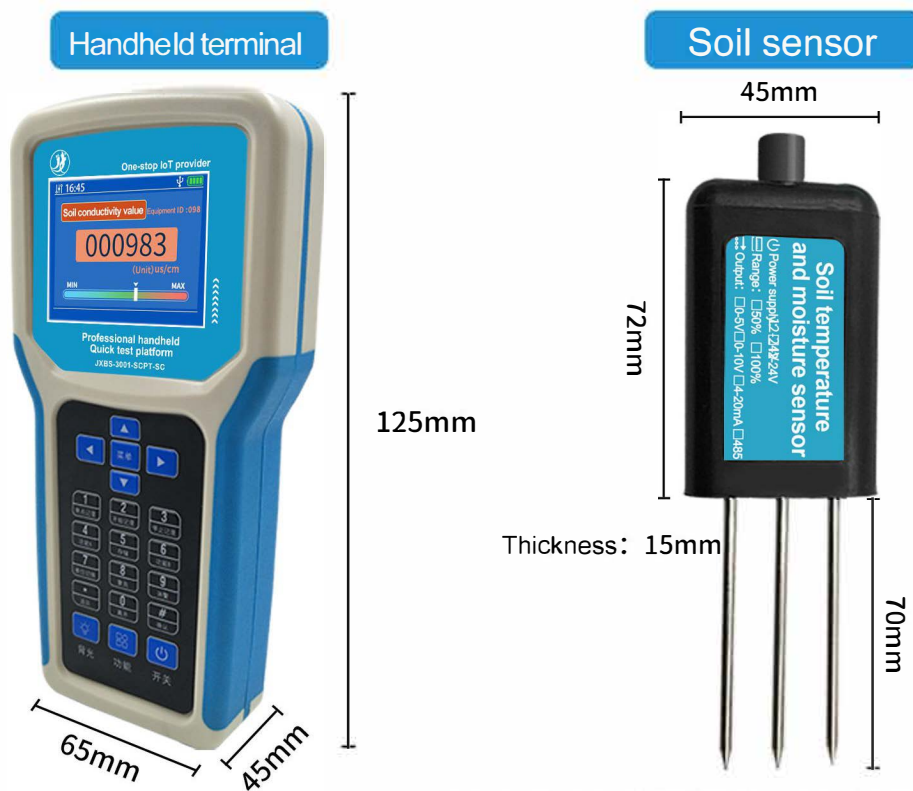


Interface definition



1	USBDM	2	USBDP
3	ADC	4	IIC_SDA
5	IIC_SDL	6	GND
7	12VDC	8	485B
9	485A		

Product Size



*The shell size parameters of each type of sensor are consistent with the parameters above

Product packaging



*Package content: handheld rapid test platform, soil sensor, charging power supply, suitcase

Product parameter

Handheld terminal

Accessible equipment	1-4 ModBus device combination
Letter of agreement	ModBus serial communication protocol
Display Data	Equipment raw data
Operating temperature	-20°C—50°C
Working humidity	<90%RH no condensation
Power supply	12V DC charging, 2500mAh (standard) lithium battery
Display method	2.8 inch LCD screen
Communication method	USB (read, see DB9 interface information for details)
Data storage	4MB storage space (standard configuration)
Charging time	≤4H (standard configuration)
Size	125*65*45mm
Weight	125*65*45mm

*This device is battery powered

Soil NPK sensor

Measuring range	0-1999mg/kg
Measurement accuracy	±2%F.s
Resolution	1mg/kg (mg/l)
Operating temperature	5-45°C
Working humidity	5-95% (Relative humidity), no condensation
Baud rate	2400/4800/9600
Communication port	RS485
Power supply	12V-24V DC
Response time (T90 seconds)	<10

Soil conductivity temperature and humidity three-in-one sensor

Power supply	12-24V DC
Moisture measurement range	0-100%
Storage environment	-45°C—115°C
Temperature accuracy	±0.5°C
Temperature measurement range	-40°C—80°C(customizable)
Moisture accuracy	±3% in the range of 0-53%; 53 ±5% within -100%
Output signal	RS485
Installation method	Embed all or insert all probes Measured medium
Conductivity range	0-10000us/cm
Conductivity resolution	10us/cm
Response time	<1s
Protection level	IP68
Power consumption	≤0.15W(@12V DC, 25°C)
Working pressure range	0.9-1.1atm

Soil PH sensor

DC power supply	12-24V DC
Power consumption	≤0.15W
Measurement accuracy	±0.3pH
PH measuring range	3-9pH
Long-term stability	≤5%/year
Output signal	RS485Output (Modbus protocol)
Operating temperature	0-55°C
Responding speed	≤15s

Product real shot/user case



Remote supervision on cloud platform

Jingxun Cloud is a big data cloud platform based on SaaS Internet of Things. Designed for China's current government cloud system. Jingxun Cloud has the characteristics of thousands of people and thousands of faces, localized deployment of private domain names, free use of the basic interface, and all sensors of Jingxuntong can be used. Jingxun Cloud currently has more than ten industry templates such as smart city, smart industry, smart farming, smart agriculture, smart public toilets, and six functional modules for real-time monitoring, control and early warning, expert system, e-commerce system, industry empowerment, and characteristic functions. , 5 minutes to quickly build, one-stop deployment throughout the process.



Privatization deployment

Provide domain name access services and complete privatization deployment.



Equipment linkage

Remotely control the network relay to control other equipment to work.



Access permission

Set a password for the master account to prevent malicious tampering and operation of the device by others.



Data forwarding

It has a one-key configuration template and forwarding function, which can send the measurement data of the specified device to the platform.



Jingxun Cloud Mini Program

It does not occupy memory, making the operation of the PTZ more convenient.

Soil moisture monitoring

It can monitor soil temperature and humidity, electrical conductivity, pH, nitrogen, phosphorus, potassium, tension, water potential, heat flux, heavy metals and other parameters at the same time around the clock, and collect and upload them to the cloud.



Smart Agriculture Big Data Platform

Agricultural product traceability system

The whole link can be traced to make the product information digital and transparent.



Seed procurement

1



Planting information

2



Inspection information

3



Packaging Information

4



Transport message

5



Consumer terminal

6

Expert library module

It can realize the needs of online consultation, online diagnosis, agricultural knowledge base retrieval, and diagnosis resource library management.



expert system



Integrated Information Service Platform



Agricultural Technology Extension



Government Affairs Public Page

Government Affairs Open System

It can effectively promote nationwide anti-corruption efforts. Promote the nation's top-down rule of law. Enhance government credibility and promote cooperation between government and the public.

Agricultural Advisory System



Warehouse Management System

Can divide the warehouse area, real-time display goods storage information. The records of incoming and outgoing goods are clear at a glance, which facilitates storage management.



Agriculture Mall

It is highly targeted and serves various agricultural producers, wholesalers and upstream and downstream suppliers, reducing the risk of supply and demand imbalance.



Electronic business platform



Agricultural Market Information System



Input agricultural supervision system