Plant Nutrition Analyzer

BPNA-4

Selling point

- Anti light interference
- Bluetooth wireless transmission
- High definition 1.3 in OLED
- Mobile APP
- Multi point-segment calibration
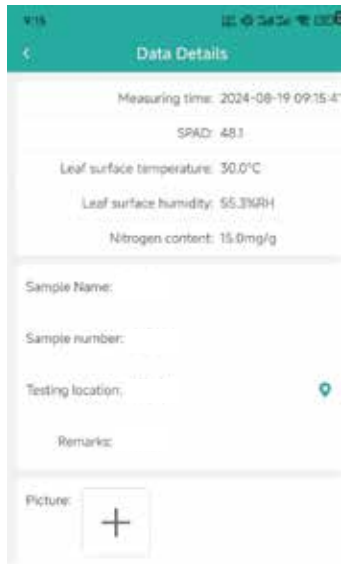- Guiding fertilizer application amount

Description

◆ The plant nutrition analyzer can perform non-destructive live detection of plants with out affecting their growth. It can measure leaf temperature, nitrogen content, relative chlorophyll content, and leaf humidity. Widely used in agricultural and forestry related research institutions and universities for the study of plant physiology and guidance of agricultural production.

Mobile App Interface

- Provide convenient data viewing, analysis, and management functions. Users can access measurement results anytime and any where, maintaining real-time updates and monitoring of data.
- Support detailed recording of sample names, numbers, and testing locations, and taking photos to save sample records, ensuring the integrity and traceability of information.
- The test data and associated images can be exported to an Excel spreadsheet with just one click, making it convenient for users to conduct further data analysis, report production, or data sharing.

Features

- **Live rapid non-destructive testing**
  Using non-destructive measurement methods to ensure that plant growth is not affected.
- **High precision guarantee**
  By using multi-point and multi-stage calibration techniques, the accuracy and reliability of each measurement are ensured.
- **Design of Leaf Chamber to Prevent Light Interference**
  Built in multi-layer anti-interference design in the structure effectively shields the influence of external light and environmental temperature on measurement results.
- **Multiple parameters, obtained at once**
  Measure the chlorophyll content, temperature, humidity, and nitrogen content of the leaves at once.
- **High definition display**
  Equipped with high-definition OLED display screen, providing high brightness and contrast, data display is clearer and more intuitive.
- **Data calculation function**
  Can display the average, highest, and lowest values of the last 30 sets of measurement data.
- **Intelligent interconnection function**
  Through Bluetooth wireless transmission, it achieves convenient connection with mobile apps and real-time data synchronization.
- **Intelligent low battery reminder**
  When the instrument has 20% remaining battery, the system will issue a low battery warning to ensure that the instrument does not suddenly shut down.

Specifications

Model	BPNA-4
Measuring Range	chlorophyll : 0.0~99.9SPAD Leaf surface temperature : 10~99.9℃
	Nitrogen content : 0.0~99.9mg/g Leaf surface humidity : 0.0~99.9%RH
Measurement accuracy	chlorophyll : ± 1.0 SPAD（SPAD values range from 0 to 50 at room temperature）
	Leaf surface temperature : ±0.5℃
	Nitrogen content : ±5%
	Leaf surface humidity : ±5%
Repeatability	chlorophyll : ± 0.3 SPAD（SPAD values range from 0 to 50 ）
	Leaf surface temperature : ±0.2℃
	Nitrogen content : ±0.5 units
	Leaf surface temperature : ±0.5%
Max measured thickness	1.2mm
Measurement time interval	2 seconds
Measure area	2mm*2mm
Power Supply	2 1.5V dry batteries, capable of continuous measurement up to 5000 times
Data storage capacity	Host 2000 pieces of data, unlimited storage in the instrument APP