LABTRON

Chlorophyll Meter
LCPM-A10

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Chlorophyll Meter LCPM-A10 is a handheld meter that offers 0.0 to 99.9 SPAD and-10 to 99.9°C measuring range to assess the chlorophyll concentration in plant leaves. Supplied with 2 LED light sources i.e., red light (650 nm) and infrared light (940 nm) for perfect inspection. Designed with LCD screen, that provides real-time data display with 2×2 mm of measuring area. It can directly measure chlorophyll and nitrogen concentration in the leaf without plucking it.

Features

- A compact and portable microprocessor comprised of unit
- 2-wavelength concentration difference of optical measuring methods
- Silicon semiconductor photodiode sensor, for quick and non-destructive detection
- Testing parameters for plant's nitrogen, chlorophyll, leaf structure, and leaf humidity
- Imported with a rechargeable Li-battery allows long and worry-free operation
- 30 KB memory with USB interface, for convenient data processing and storage
- Configured with a memory card that allows data storage capacity of 999 groups, for the management and analysis
- Software program with online upgrade and data visualization via chart or curve
- Automatic calculation of average, reduced operation time
- An optimal unit to measure the relative amount of chlorophyll present in plant leaves

Specifications

Model	LCPM-A10
Test Parameters	Nitrogen, Chlorophyll, Leaf structure, and Leaf humidity
Test Range	Chlorophyll: 0.0 to 99.9 SPAD Nitrogen: 0.0 to 99.9 mg/g Leaf humidity: 0.0 to 99.9% RH Leaf temperature:-10 to 99.9°C
Test Accuracy	Chlorophyll: ± 1 SPAD Nitrogen: ± 5% Leaf humidity: ± 0.5% Leaf temperature: ± 0.5°C
Measuring Range	0.0 to 99.9 SPAD and-10 to 99.9°C

Measuring Accuracy	± 3 SPAD, ± 0.5°C
Measuring	± 0.3 SPAD, ± 0.2°C
Nitrogen Repeatability	±0.5 unit
Measuring Mode	2-wavelength concentration difference of optical methods
Measuring Area	2×2 mm
Minimum Measuring Interval	< 3 s
Operating Temperature	-10 to 50°C
Sensor	Silicon semiconductor photodiode sensor
Display Mode	3 digits measuring value and 2 digits measuring times
Display	LCD
Light Source	2 LED light sources: Red light (650 nm) and Infrared light (940 nm)
Controller	Microprocessor
Memory Storage	999 groups
Memory	30 KB
Power	4.2 V, 2000 Mah rechargeable Li-ion battery
Weight	200 gm

Application

A chlorophyll meter is used to measure the chlorophyll content of plants or greenness, leaf temperature, to increase the utilization of nitrogen fertilizer across agriculture, plant biotechnology etc.