



CHLOROPHYLL METER (PLANT NUTRITION ANALYZER)



Description

Plant Nutrition Analyzer is designed to measure three key parameters—chlorophyll content, nitrogen content, and leaf temperature—simultaneously. These parameters are essential indicators of plant nutrition and growth condition. The instrument uses near-infrared spectroscopy to perform non-destructive testing of plant leaves, allowing accurate analysis without affecting plant growth. It helps in optimizing fertilization and irrigation practices, improving nitrogen utilization, and supporting sustainable agriculture.

Applications

- Agriculture and crop monitoring
- Plant nutrition and health analysis
- Precision farming and fertilizer management
- Research and agronomy studies
- Environmental and plant physiology analysis

Features

- Measures chlorophyll, nitrogen content, and leaf temperature simultaneously
- Non-destructive testing ensures no damage to plants
- Rapid measurement for efficient field analysis
- Manual measurement mode
- Displays and stores past data with multi-parameter view
- Supports wired and wireless data transfer to computer
- Easy data storage and retrieval
- Low power consumption

Uses

- Measuring chlorophyll, nitrogen content, and leaf temperature simultaneously
- Assessing plant nutrient status and overall plant health
- Optimizing fertilizer (especially nitrogen) application
- Supporting precision agriculture and smart farming practices
- Monitoring crop growth and productivity
- Conducting non-destructive plant analysis in field conditions
- Research in plant physiology, agronomy, and environmental studies
- Improving irrigation and nutrient management decisions



KCM-300

Technical Specifications

| Parameter | Specification |
|---------------------------|---|
| Model | KCM-300 |
| Product Type | Plant Nutrition Analyzer |
| Measuring Parameters | Chlorophyll, Nitrogen, Leaf Temperature, Leaf Humidity (4N) |
| Measuring Area | 2 mm × 2 mm |
| Measuring Interval | < 3 seconds |
| Data Storage Capacity | 999 groups |
| Power Supply | 4.2V, 2000mAh Rechargeable Li-ion Battery |
| Chlorophyll Range | 0.0 – 99.9 SPAD |
| Nitrogen Range | 0.0 – 99.9 mg/g |
| Leaf Humidity Range | 0.0 – 99.9 RH% |
| Leaf Temperature Range | -10 – 99.9°C |
| Chlorophyll Accuracy | ±1 SPAD |
| Nitrogen Accuracy | ±5% |
| Leaf Humidity Accuracy | ±0.5% |
| Leaf Temperature Accuracy | ±0.5°C |