Plant Nutrition Analyzer, Chlorophyll 0-99.9 SPAD, Nitrogen 0-99.9 mg/g, Leaf Temp and Humidity

Model **MSBPNA-4SWISS** | Brand **Master Science**





The Plant Nutrition Analyzer measures four leaf parameters in one reading without harming the plant: relative chlorophyll content (0-99.9 SPAD), nitrogen content (0-99.9 mg/g), leaf surface temperature (10-99.9°C) and leaf surface humidity (0-99.9% RH). It supports plant physiology research and crop production guidance in agricultural and forestry institutes and universities.

KEY HIGHLIGHTS

- Four Parameters at Once
- Non-Destructive
- Light-Shielded Chamber
- Connected Data

AT A GLANCE

0.0-99.9 SPAD / ±1.0 SPAD (0-50 SPAD) CHLOROPHYLL RANGE / ACCURACY	**0.0-99.9 mg/g / ±5%** NITROGEN RANGE / ACCURACY
10-99.9°C / ±0.5°C LEAF TEMPERATURE RANGE / ACCURACY	**0.0-99.9% RH / ±5%** LEAF HUMIDITY RANGE / ACCURACY

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

Multi-point, multi-stage calibration supports accurate readings, and a leaf chamber with multi-layer shielding reduces interference from ambient light and temperature. The Plant Nutrition Analyzer shows data on a high-definition OLED screen, calculates average, highest and lowest values of the last 30 sets, stores 2,000 records and syncs wirelessly with a mobile app.

> For chlorophyll and leaf temperature only, see our Handheld Chlorophyll Meter, a simpler companion to the Plant Nutrition Analyzer.

Key Benefits

Four Parameters at Once
Chlorophyll, nitrogen, temperature and humidity in one reading.

Non-Destructive
Plants are tested live without affecting growth.

Light-Shielded Chamber
Multi-layer design reduces external light and temperature interference.

Connected Data
Wireless sync with the app for records, photos and spreadsheet export.

Technical Specifications

UNDEFINED

Brand	Master Science
Model Number	MSBPNA-4SWISS
SKU	MSBPNA-4SWISS
Chlorophyll Range / Accuracy	**0.0-99.9 SPAD / ±1.0 SPAD (0-50 SPAD)**
Chlorophyll Repeatability	±0.3 SPAD (0-50 SPAD)
Nitrogen Range / Accuracy	**0.0-99.9 mg/g / ±5%**
Nitrogen Repeatability	±0.5 units
Leaf Temperature Range / Accuracy	**10-99.9°C / ±0.5°C**
Leaf Temperature Repeatability	±0.2°C
Leaf Humidity Range / Accuracy	**0.0-99.9% RH / ±5%**
undefined	Max. Leaf Thickness: 1.2 mm
Measurement Interval	2 s
Measuring Area	2 × 2 mm
Display	OLED
Statistics	Average, max and min of last 30 sets
Data Storage	2,000 records; unlimited in app
Connectivity	Wireless link to mobile app
Power Supply	2 × 1.5 V dry batteries, up to 5,000 measurements
Low Battery Warning	At 20% remaining

PROBLEMS THE PLANT NUTRITION ANALYZER SOLVES

Problems the Plant Nutrition Analyzer Solves	Lab leaf analysis brings the issues below. The Plant Nutrition Analyzer answers each one.
Destructive leaf sampling	Measurements are non-destructive.
Separate meters for each parameter	Four parameters are read at once.
Sunlight affecting readings	The shielded leaf chamber blocks external light.

DISPLAY & DATA

Manual data transcription	Wireless app sync records every reading.

Applications

Crop nitrogen and chlorophyll monitoring

Plant physiology research

Forestry and horticulture studies

Agricultural production guidance

University teaching labs

Measurement

- Chlorophyll 0-99.9 SPAD
- Nitrogen 0-99.9 mg/g
- Leaf temperature 10-99.9°C
- Leaf humidity 0-99.9% RH
- Leaves up to 1.2 mm thick

Accuracy and Design

- Multi-point, multi-stage calibration
- Leaf chamber shielded from light and temperature
- 2 × 2 mm measuring area
- 2-second measurement interval

Data and Power

- High-definition OLED display
- Statistics of the last 30 readings
- 2,000 records on the meter, unlimited in the app
- Spreadsheet export from the app
- Low-battery warning at 20%

Standard Accessories Included

- Plant nutrition analyzer

Optional Accessories

- No optional accessories are listed for this model; contact our team for compatible items.