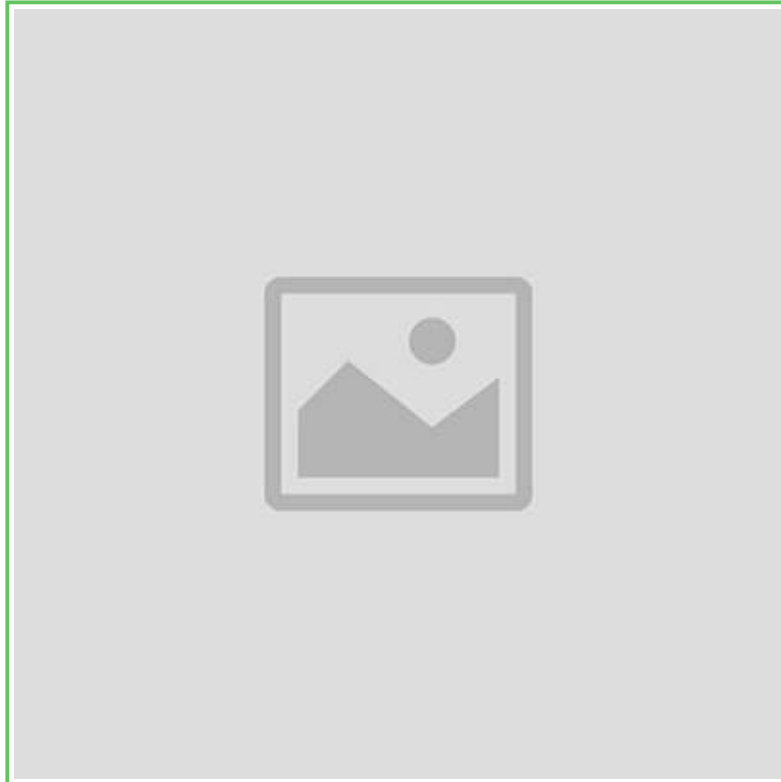


Soil Nutrient NPK Detector Analyzer



The **MSSEM2270SWISS Portable Soil Nutrient NPK Detector Analyzer** is a robust, high-sensitivity tool designed for efficient soil analysis, featuring a large 3-inch TN LCD screen for real-time readings. It uses advanced detection circuits, ensuring excellent repeatability and sensitivity, and is encased in high-strength industrial composite plastic, providing durability.

Key Specifications:

- **Power Supply:** 1.5V (3 AA batteries)
- **Display:** 3-inch TN LCD
- **Operating Conditions:**
 - Temperature: -20°C to 50°C
 - Humidity: Up to 90% relative humidity (non-condensing)

Measurement Parameters:

1. **Conductivity:**

- Range: 0-10,000 $\mu\text{S}/\text{cm}$
- Resolution: 10 $\mu\text{S}/\text{cm}$
- Accuracy: $\pm 3\%$ (0-10,000 $\mu\text{S}/\text{cm}$); $\pm 5\%$ (10,000-20,000 $\mu\text{S}/\text{cm}$)

2. **Soil Moisture:**

- Range: 0-100%
- Resolution: 0.1%
- Accuracy: $\pm 2\%$ (0-50%), $\pm 3\%$ (50-100%)

3. **Soil Temperature:**

- Range: -40°C to 80°C
- Resolution: 0.1°C
- Accuracy: $\pm 0.5^{\circ}\text{C}$

4. **Soil pH:**

- Range: 3-9 pH
- Resolution: 0.1 pH
- Accuracy: ± 0.3 pH

5. **Soil NPK (Nitrogen, Phosphorus, Potassium):**

- Range: 0-1999 mg/kg
- Resolution: 1 mg/kg
- Accuracy: $\pm 2\%$ Full Scale (F.S)

Additional Features:

- **Communication:** RS485, Modbus serial communication protocol
- **Response Time:** Less than 3 seconds
- **Dimensions:** 170mm x 93mm x 29mm

This versatile analyzer is suitable for various soil quality assessments, offering precise and rapid measurements.