

TR-4G Soil Moisture Analyzer

一、Product presentation

The TR-4G soil moisture meter is a convenient tool designed for agriculture, horticulture, and environmental monitoring. Combining advanced sensing technology with a portable design, it accurately measures soil moisture content and temperature, helping users understand soil moisture conditions in real time. Its user-friendly interface and lightweight design make it suitable for various outdoor environments, allowing users to easily carry it for field testing. Furthermore, the instrument features data recording and analysis capabilities, storing measurement results and generating reports to aid users in data analysis and decision-making. The high-precision measurement and convenience of this portable soil moisture meter make it an important auxiliary tool for agricultural production and soil management.



二、Working principle:

This instrument's sensor, employing FDR measurement, can directly and stably reflect various parameters of different soil types. It can be buried in soil for extended periods, is resistant to long-term electrolysis and corrosion, and is vacuum-sealed for complete waterproofing.

三、Scope of Application:

It can be widely used in soil moisture monitoring, dryland water-saving irrigation, precision agriculture, forestry, geological exploration, plant cultivation, water conservancy, environmental protection and other fields.

四、Implementation Standards:

NYT1121.2-2006 Soil Testing - Part 2: Determination of Soil pH

NYT1782-2009 Technical Specification for Farmland Soil Moisture Monitoring

SL 364-2006 Soil Moisture Monitoring Specification

五、Main Features:

1. LCD display with a user-friendly interface for convenient and efficient operation.
 2. Equipped with a 5V/2A power adapter and a Type-C charging port, compatible with 80% of mobile phone chargers on the market.
 3. High-performance lithium battery; a 4-hour charge provides 6 hours of continuous use; ready to use immediately.
 4. Built-in real-time clock; each measurement record is timestamped for easy statistics and retrieval.
 5. Can be directly connected to a computer via the Type-C port for convenient and fast data reading.
 6. Electrodes are made of specially treated alloy material, capable of withstanding strong external impacts and not easily damaged.
 7. Completely sealed, resistant to acid and alkali corrosion; can be buried in soil or directly immersed in water for long-term dynamic monitoring.
 8. High precision, fast response, good interchangeability; probe insertion design ensures accurate measurement and reliable performance.
- Supports sleep mode and automatic shutdown: screen backlight turns off after 10 minutes of inactivity; device automatically shuts down after 20 minutes of inactivity.