EARTH METER UNI-T UT-522

The **UNI-T UT-522 Earth Meter** is a device designed for measuring earth resistance, soil resistivity, and earth voltage. It is commonly used in electrical engineering, telecommunications, and other fields where grounding systems need to be tested and evaluated. Below are some key features and specifications of the UT-522:

Key Features:

1. **Earth Resistance Measurement:**
   - Measures earth resistance with high accuracy.
   - Typically uses the 3-pole or 2-pole method for testing.
2. **Soil Resistivity Measurement:**
   - Measures soil resistivity using the 4-pole method (Wenner method).
3. **Earth Voltage Measurement:**
   - Measures AC voltage in the grounding system to ensure safety and accuracy.
4. **Data Hold Function:**
   - Allows users to freeze the displayed reading for easy recording.
5. **Backlit LCD Display:**
   - Provides clear readings even in low-light conditions.
6. **Auto Power Off:**
   - Saves battery life by automatically turning off the device after a period of inactivity.
7. **Portable and Durable:**
   - Compact and lightweight design for easy portability.
   - Built to withstand harsh working environments.

Specifications:

- **Earth Resistance Range:** Typically 0–20 Ω, 0–200 Ω, 0–2000 Ω (depending on the model).
- **Soil Resistivity Range:** Usually up to 1999 kΩ·m.

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- **Earth Voltage Range:** Generally 0–200 V AC.
- **Accuracy:** High accuracy, often within ±2% of the reading.
- **Power Supply:** Usually powered by batteries (e.g., 6 x 1.5V AA batteries).
- **Operating Environment:** Designed to work in a wide range of temperatures and humidity levels.

Applications:

- Testing and maintaining grounding systems in electrical installations.
- Evaluating soil resistivity for construction or agricultural purposes.
- Ensuring safety and compliance with electrical codes and standards.