

# TP READER

## DESCRIPTION

The TP Reader is a low cost portable reader designed to work exclusively with the Theta Probe, soil moisture sensor manufactured by Delta-T Devices.

## HOW IT WORKS

The TP Reader is a display only unit designed to make volumetric soil moisture readings using the Theta probe.

The unit displays un-calibrated moisture readings, using the linear approximation of the Theta Probe's relationship between moisture content and voltage. The TP Reader does not have the capacity to store readings. If either memory storage or soil specific calibrations are required, the HH2 Hand Held Reader should be used.



The TP Reader is powered by a 9 volt PP3 Alkaline Battery. The unit will not power up unless a Theta Probe is plugged in to the connector on its base.

To take a reading, push the pins of the Theta Probe in to the soil under test. Ensure the pins are completely buried. Press and hold the button on the front panel of the TP Reader to take a reading. For best results, take several readings in the soil and average them out to avoid any variation caused by plant roots, stones etc.

## SPECIFICATIONS

Part Number	Comments
Power Source	9 Volt PP3 Alkaline battery
Measurement range	0 to 50% volumetric soil moisture content
Accuracy	5% over the range 5 to 50%
Resolution	0.4%

Part Number	Description	Comments
2240	TP Reader	Low cost reader for Theta Probes

## RELATED PRODUCTS

Part Number	Description	Comments
THETA	Theta Probe	Volumetric Soil Moisture Sensor
HH2	HH2	Hand Held Reader for use with the Theta Probe. Used if local storage or soil specific calibrations are required
ML-INK	Insertion Kit	Used to install the Theta Probe in dry soils. Prevents damage to the probe pins