

The Xtrem single soil moisture logger and sensor measure the moisture and temperature of soil. The logger itself also measures the ambient temperature. The readings are stored in the internal non-volatile memory along with the ambient temperature (measured inside the logger) and a timestamp. When in range, the logger wirelessly communicates to the Odyssey® Xtract software application (download free from Play Store or App Store) on your android phone or tablet and stores the readings on your device. When the Xtract application detects a network connection, it sends the data to the cloud database servers. Using any standard internet browser, connect to our Odyssey® Xpert Web portal to analyse your data.



Features

- Single Soil Moisture Measurement 1m.
- Percentage saturation or Volumetric.
- Temperature Measurement
- Removable sensor cable.
- Internal Ambient temperature reading.
- Calibrated temperature (traceable to NIST standards)
- Wireless
- Variable logging Interval

Specification: (typical conditions, Battery Voltage 3V, Temperature 22°C)

Soil Moisture Sensor Range	0.00 to 100.00% of Saturation or Volumetric.
Soil Moisture Accuracy	1% typical
Soil Moisture Sensor Resolution	0.01%
Moisture Detection Radius	8.5cm
Soil salinity sensitivity	Less than 0.25% per 1000uS/cm
Temperature Accuracy (factory calibrated)	±0.15°C (sensors in Probe), ±0.2°C (in Logger)
Temperature Resolution	0.01°C
Calculated Battery Life – (Extended / Standard) – (Industrial)	2 Years Based on 10min recording interval 5+ Years (Dependent on average temperature)
Memory Capacity	30,000 Including ambient temperature
Water Proof	IP67 (30mins submersion to 1m), IP68 on request
Dimensions – Logger / Sensor Length	46mm Diameter, 160mm Length / 1m
Operating Temperature – (Standard) – (Extended / Industrial)	-20 to 55°C (Standard battery with reduced life below 0°C) -20 to 60°C / -30 to 85°C
Wireless Communications	Bluetooth® LE
Supported Phone/Tablet	Android™ V8.0 or greater. Apple iOS® V9.3.6 or greater.
Battery (standard) (2 per logger)	Alkaline AA 1.5V (Energizer Max® E91)
Approvals	FCC, CE, RCM, ISED, MIC, KC, NCC, SRRC, WPC