

Soil Moisture Data Logger

Introduction

Soil Moisture Data Logger feature latest technology support and helps in logging Moisture content of the soil and log into MS Excel file with proper date & time stamp. Sampling rate can be adjustable from 600 sample / second to 1 sample / week This Data logger can send SMS of the current sensor reading & GPS Coordinate can also be logged.

Data Logger Features

- **Input :** Up to 4 sensors per Soil Moisture Data Logger.
- **Sampling Rate:** Readings taken automatically every 600 sample/sec to 1 sample/week.
- **Display:** 16*2 LCD Display/ Touch Panel .
- **No. of Channel:** 10 (4 for analog input/4 for digital input/1 relay output/1 RS 485 terminal)
- **Communication:** GSM/USB/MODBUS.
- **Enclosure:** weatherproof IP rated Enclosure.
- **Timing:** Build In Real Time Clock.
- **Supply:** AC operated/Battery Operated/DC Operated.
- **Data Storage:** In a Ms Excel Sheet, Each records are stored with Time & Date stamp.
- **Storage Capacity :** 1 Million Samples.

Soil Moisture Sensor Probe Features

- Extreme low cost with volume pricing.
- Not conductivity based.
- Insensitive to salinity.
- Probe does not corrode over time.
- Rugged design for long term use.
- Small size.
- Consumes less than 7mA for very low power operation.
- Precise measurement.
- Measures volumetric water content (VWC) or gravimetric water content (GWC).
- Output Voltage is proportional to moisture level.
- Wide supply voltage range.
- Can be buried and is water proof.
- Probe is long and slender for wider use, including smaller potted plants.

Soil Moisture Sensor Probe Specifications

- Power consumption < 7mA
- Supply Voltage 3.5V to 20 VDC.
- Dimensions See drawing below.
- Power on to Output stable 400 ms.
- Output Impedance 10K ohms.
- Operational Temperature -40°C to 85°C.
- Accuracy at 25° C 2%.
- Output 0 to 3V related to moisture content.
- Shell Color Red.
- Voltage Output Curves Curves, Piecewise linear equations.

