

Soil Moisture Datalogger

This station has been designed specifically for farmers and growers who require continuous monitoring of soil and/or pump flow conditions. The brief has been to combine scientific grade equipment into a package that is easy to install, economic and rugged enough to withstand New Zealand conditions. It is suitable for consent monitoring, irrigation and crop management.

Features:

- Measurement of soil moisture using a **research grade CS650 TDR sensor**
- Rugged field tested enclosure
- Integral solar panel and 12V SLA battery
- CR300 Campbell Scientific electronic datalogger
- Easy to mount on user-supplied pole
- Free downloading software



**LoggerLink
Compatible***



Other options:

- Flow measurement from a (user supplied) pulse output flow meter
- Measurement of rainfall, soil temperature & conductivity
- Soil sensors at multiple depths for soil moisture profiling
- Sensors for measurement of power usage
- Access to your data via a secure website
- Wireless transmission to an office base

* LoggerLink Mobile App requires telemetry data plan



CS650 soil moisture sensor

Sensor specifications:

Sensor	Measurements	Accuracy
CS650	Soil moisture: 5 – 50% VWC Soil temperature: - 10° to + 70°C Soil Conductivity: 0 to 3 dS/m	±3% VWC typical in mineral soils with solution electrical conductivity ≤0.5 dS/m ±0.5°C temperature ±(0.5% of reading + 0.05dS/m) solution conductivity
CS655 (optional)	Soil moisture: 5 – 50% VWC Soil temperature: -10° to + 70°C Soil conductivity: 0 to 8 dS/m	±3% VWC typical in mineral soils with solution electrical conductivity ≤10 dS/m. ±0.5°C temperature ±(0.5% of reading + 0.05dS/m) solution conductivity



Example installation showing three sensors down the soil profile (before backfilling)

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www.scottech.net