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Aquaflex SML

Aquaflex Soil Moisture Logger

MEA's Aquaflex Soil Moisture Loggers are an affordable, reliable solution to continuous soil moisture and temperature monitoring.

The Aquaflex is a robust device that provides averaged, temperature-compensated soil moisture readings over a large area rather than in just one spot. The Aquaflex soil moisture sensor is a flexible 3m long tape with a huge sampling area of 6 litres.

- Accurate to $\pm 2\%$ soil moisture
- Maintenance-free instrument
- Soil moisture and soil temperature

The Aquaflex SML is able to record and store soil moisture and soil temperature at 30 minute intervals.

1 or 2 Aquaflex sensors can be used. The SML also has an input to which a rain gauge or wind speed sensor can be attached.

Data can be retrieved from a Soil Moisture Logger by serial cable connection to a PC, dial-up connection over the NextG mobile network from a PC, or via an Internet connection. The power supply is an ultra-reliable system based on a 5W solar panel.

MEA's Magpie software (for Windows) is provided as part of the system, and is used to display data in a range of graph styles and as tables. Data can be exported to other programs if required.

Applications

The Aquaflex is particularly suited to under-turf applications such as golf courses, race tracks, sporting grounds and so on.



Specifications for Aquaflex SML

Sensor Type	Aquaflex
Measurement Range	Soil Moisture: 0 to 60% Soil Temperature: -10° to +50°C
Memory	128kRAM (months of storage)
Recording interval	30mins (user adjustable)
Input Channels	2 Aquaflex sensors 1 rain gauge or wind speed
Power Supply	5W solar panel