

# MEA

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## Aquaflex

### Aquaflex Soil Moisture & Soil Temperature Sensor

The Aquaflex SI.99 is a robust device that provides reliable soil moisture and soil temperature readings in a single instrument. The Aquaflex 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 3 m 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 is easy to install, requiring nothing more sophisticated than a shovel.

Aquaflex is a 'TDR-like' instrument capable of measuring soil moisture to an accuracy of  $\pm 2\%$ , and temperature to  $\pm 0.5^\circ\text{C}$ .

For continuous soil moisture monitoring of buried installations, Aquaflex can be used with MEA's Soil Moisture Loggers. Soil moisture and temperature data can be retrieved and displayed on a PC using Magpie software (for Windows) which allows you to view soil moisture and temperature over time, as a graph or table.

### Applications

Aquaflex is suitable where there is a need to know the averaged soil moisture over a large sampling area rather than a more precise reading at a particular sampling point. It is particularly suited to under-turf installations. Application areas include golf courses, tennis courts, sporting grounds and racetracks, agriculture, compost, hydrology and meteorological monitoring.



### Specifications for Aquaflex

	Soil	Moisture:	Time	Domain
Sensor Type	Transmission			
		Soil Temperature:	Thermistor	
Measurement Range	Soil Moisture:	0 to 60%		
	Soil Temperature:	-10° to +50°C		
Accuracy	Volumetric soil moisture:	$\pm 2\%$		
	Soil Temperature:	$\pm 0.5^\circ\text{C}$		