

# ThetaProbe

## ThetaProbe Soil Moisture Content and Soil Temperature Sensor

Accuracy, stability and reliability have made ThetaProbes the preferred choice for thousands of farmers, researchers and engineers worldwide.

As well as soil moisture content, the new ML3 ThetaProbe adds temperature monitoring and improved performance in saline soils.

- Soil moisture and soil temperature
- Low-maintenance instrument
- Excellent stability in saline soils

ThetaProbes will meet their full  $\pm 1\%$  accuracy specification for soil moisture content after a single two-point calibration for your chosen soil (or other medium). The two supplied standard calibrations achieve  $\pm 5\%$ .

The soil temperature measurement range is from  $-20$  to  $+60^\circ\text{C}$ , with an accuracy of  $\pm 0.5^\circ$  between  $0$  and  $+40^\circ\text{C}$ .

ThetaProbes have excellent temperature and salinity stability.

For continuous soil moisture and temperature monitoring in permanently buried installations\*, ThetaProbes can be used with the MEA Weather Station as part of a complete climate monitoring solution. For continuous monitoring focussed on soil measurements use ThetaProbes with MEA's MAX.

If you are interested in using ThetaProbes for 'spot' measurements, please refer to our ThetaKit brochure.

### Applications

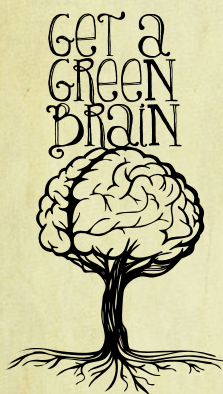
ThetaProbes can be used in a wide range of soils, composts and other growing media. Typical application areas include agriculture, soil science, hydrology, civil engineering, pollution monitoring and forestry.

\*For soil temperature measurement, the ThetaProbe and the first 30 cm of cable need to be buried under at least 5 cm of soil.



### Specifications for ThetaProbe

Measurement Range	Moisture: 0 to 50% Temperature: $-20$ to $+60^\circ\text{C}$
Accuracy	Moisture $\pm 1\%$ with 2-point calibration ( $\pm 5\%$ with supplied generic calibrations)  Temperature $\pm 0.5^\circ\text{C}$ ( $0$ to $40^\circ\text{C}$ ) $\pm 0.75^\circ\text{C}$ ( $-20$ to $+60^\circ\text{C}$ )



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soil moisture  
and  
climate monitoring  
with  
certainty