



**METER**

## **WP4C WATER POTENTIAL METER \* SOIL**



### **TOP MARKS IN LEAF WATER POTENTIAL MEASUREMENT & SEED PRIMING**

Unparalleled accuracy. Simplicity of use. Fast speeds. The WP4C meets the highest of instrumentation standards and more. As a result, it instills complete trust and eliminates confusion, which combine to add up to considerable time savings.

The WP4C measures water potential by determining the relative humidity of the air above a sample in a sealed chamber (conforms to ASTM D6836). Once the sample comes into equilibrium with the vapor, relative humidity is determined using the chilled mirror method. This involves chilling a tiny mirror until dew starts to form. At the dew point, the WP4C measures both mirror and sample temperature within 0.001 °C. This allows for unparalleled accuracy in the -0.1 MPa to -300 MPa range so you can have full confidence in sample readings.

For the dry end of the moisture release curve, the HYPROP FIT Software can be used to plug in water potential data collected by the WP4C for fitting different water retention models (i.e., van Genuchten, van Genuchten Bimodal, Fredlund & Xing, Brooks & Corey).

For more information and resources about SOIL WATER POTENTIAL , please look at the below link:  
<https://www.metergroup.com/en/meter-environment/products/wp4c/wp4c-resources>



**BILMAR BİLİMSEL ARAŞTIRMA VE MÜHENDİSLİK ANONİM ŞİRKETİ**

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### METER

#### Features

- Precise mode
- Chilled mirror dew point technique
- Fast equilibration
- Unparalleled accuracy in the -0.1 MPa to -300 MPa range
- Durable and easy to clean
- Easy to calibrate with saturated salt solutions
- Conforms to ASTM D6836



#### Specifications

##### MEASUREMENT SPECIFICATIONS

WATER POTENTIAL	<b>Range:</b> 0 to -300 MPa <b>Resolution:</b> NA <b>Accuracy:</b> $\pm 0.05$ MPa from 0 to -5 MPa * 1% from -5 to -300 MPa
TEMPERATURE	<b>Range:</b> 15-40 °C <b>Resolution:</b> 0.1 °C <b>Accuracy:</b> $\pm 0.2$ °C
READ TIME	<b>Soil sample:</b> ~10-15 min (precise mode) * <5 min (fast mode) <b>Plant sample:</b> ~20 min

##### PHYSICAL SPECIFICATIONS

CASE MATERIAL	Powder painted aluminum
WEIGHT	3.2 kg
DISPLAY	20 x 2 alphanumeric LCD with backlighting
POWER	110-220 VAC 50/60 Hz
OPERATING TEMPERATURE	5-40 °C
INTERFACE CABLE	Standard RS-232 to USB cable (included)
SAMPLE DISH CAPACITY	7 mL recommended (15 mL full)
SENSOR TYPE	Chilled-mirror dew point sensor Infrared temperature sensor



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