



**METER**

**WP4C**  
**WATER POTENTIAL METER \* LEAF & SEED**



### 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 more information about LEAF WATER POTENTIAL , please look at the below link:

<https://www.metergroup.com/en/meter-environment/expertise-library/video-easy-accurate-measurement-leaf-water-potential-using>

For more information about SEED PRIMING , please look at the below link:

<http://publications.metergroup.com/Sales%20and%20Support/METER%20Environment/Website%20Articles/water-potential-key-successful-seed-priming.pdf>



**BILMAR BİLİMSEL ARAŞTIRMA VE MÜHENDİSLİK ANONİM ŞİRKETİ**

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## WP4C WATER POTENTIAL METER \* LEAF & SEED

### 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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