

SPECIFICATIONS

WP4 PotentiaMeter

Operating environment:

5 to 43°C, 20 to 85% relative humidity.

Sensors:

1. Infrared sample surface temperature.
2. Cooled mirror condensation dewpoint.

Power:

110V or 220V AC, 50/60Hz.

Display:

20 x 2 alphanumeric dot-matrix LCD with backlighting.

Accuracy:

±0.1MPa

Range:

0 to -40MPa

Resolution:

±0.01MPa.

Interface cable:

Standard RS232A serial cable included.

Communications:

9-pin D-subminiature, RS232A compatible, 8-data bit ASCII code, 9600 baud, no parity, 1 stop bit.

Weight:

3.2 kilograms.

Shipping Weight:

5.2 kilograms.

Case material:

Powder coat aluminum.

Sample dish capacity:

15ml full (7ml recommended).

Enclosure size:

25.4 x 22.8 x 11.4cm.

Fuse: 2A.

Warranty: 1 year.



■ Chilled-mirror dewpoint method yields superior water potential results.



Measuring the water potential of soil and seed samples has never been so easy.

Typical Applications

- General moisture release curves.
- Measuring water potential of samples for the seed zone, root zone and under mulch.
- Measuring water potential dependence of seed germination.
- Monitoring seed priming media.
- Seed borne disease studies.
- Water relations of compost.
- Water potential monitoring for Bioremediation.

All features are packaged in a bench top enclosure with integral sensor drawer.

The RS232A port allows direct data transfer to an attached computer.

Disposable, lidded sample cups make sample handling easy.

■ Internal chilled-mirror dewpoint measurement is accurate, ±0.1MPa over entire range (from 0 to -40MPa).

■ Single-point calibration; fast and simple.

■ Both water potential and sample temperature are displayed.

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■ Inserting the sample and turning the knob initiates readings. About 5 minutes to measure sample water potential.

Why wait a week when you can have water potential measurements in minutes?



WP4 makes the difficult measurement of water potential quick and easy. WP4 has a measurement range from 0 to -40 MPa (saturation to air dry) with an accuracy of 0.1MPa or better. WP4 senses the dewpoint of

water vapor with a cooled mirror located above a sample in a closed chamber. Sample temperature is monitored with a built-in infrared thermometer. Readings for individual samples are obtained rapidly (about 5 minutes). ■

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