

MAKE FAST, ACCURATE WATER POTENTIAL MEASUREMENTS IN THE LAB

Measure the water potential of soil, soilless substrate, plant tissue, or any porous material in 10 to 15 minutes. Effective range: -0.1 to -300 MPa.*

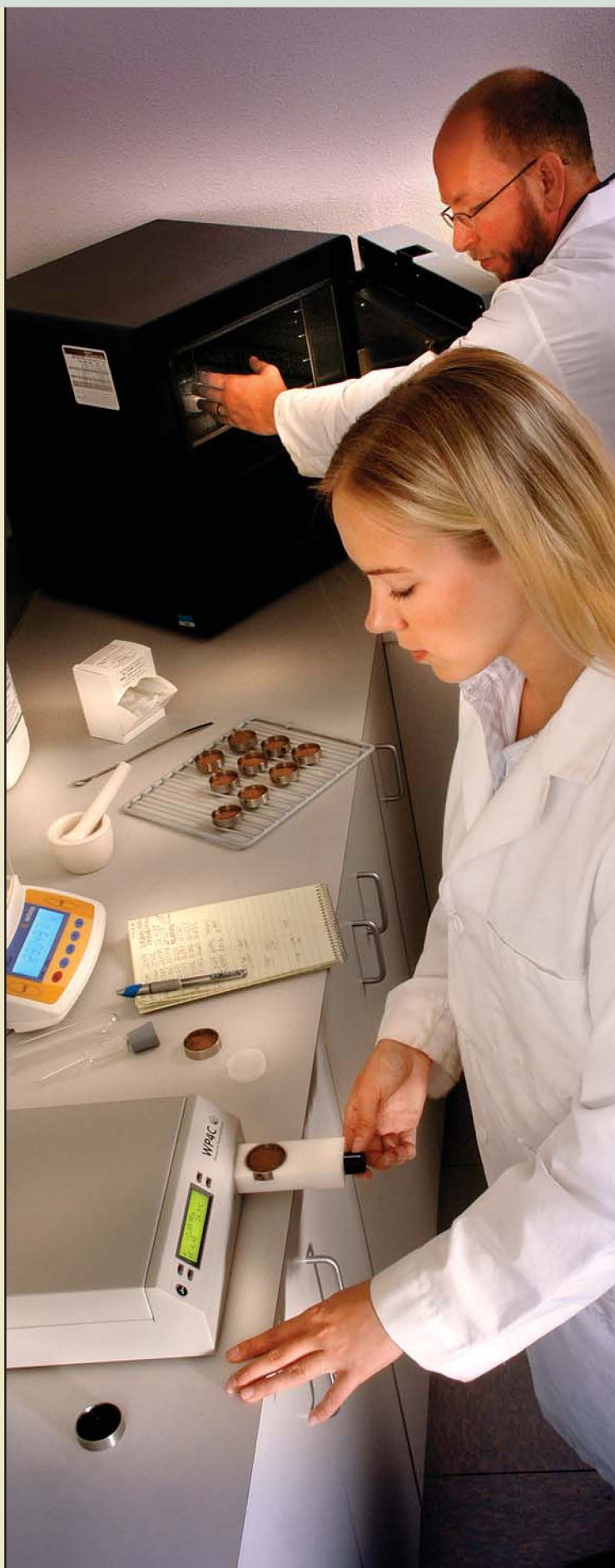
The WP4C measures water potential by determining the relative humidity of the air above a sample in a closed chamber (an AOAC-approved method, conforms to ASTM 6836).

**Note: WP4C will read to 0 MPa, but readings of samples wetter than -0.1 MPa will have an increasing, and typically unacceptable, percentage of error. Some users may be able to make useful measurements in samples wetter than -0.1 MPa using special techniques. For more information, see the WP4C User Manual.*

Watch a video to learn more about the WP4C and it's fast, accurate water potential measurements. www.decagon.com/wp4c



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WP4C SPECIFICATIONS

Operating Environment

5 to 43°C (41 to 110°F)

Temperature Control

15° to 40°C ±0.2 °C

Sensors

1. Infrared temperature. 2. Chilled-mirror dewpoint

Range -0.1 to -300 MPa

Accuracy

±0.05 MPa from 0 to -5 MPa, ±1% from -5 to -300 MPa

Read time Typically 10 to 15 minutes for most soil samples. 20 minutes for plant tissue samples.

Interface Cable Serial cable (included)

Data Communications

RS232 compatible, 8-bit ASCII code, 9600 baud, no parity, 1 stop bit

Weight 3.2 kg (5.2 kg shipping weight)

Universal Power 110/ 220V AC, 50/60Hz

Sample dish capacity 7ml recommended (15ml full)
25 plastic cups and 10 stainless steel cups included

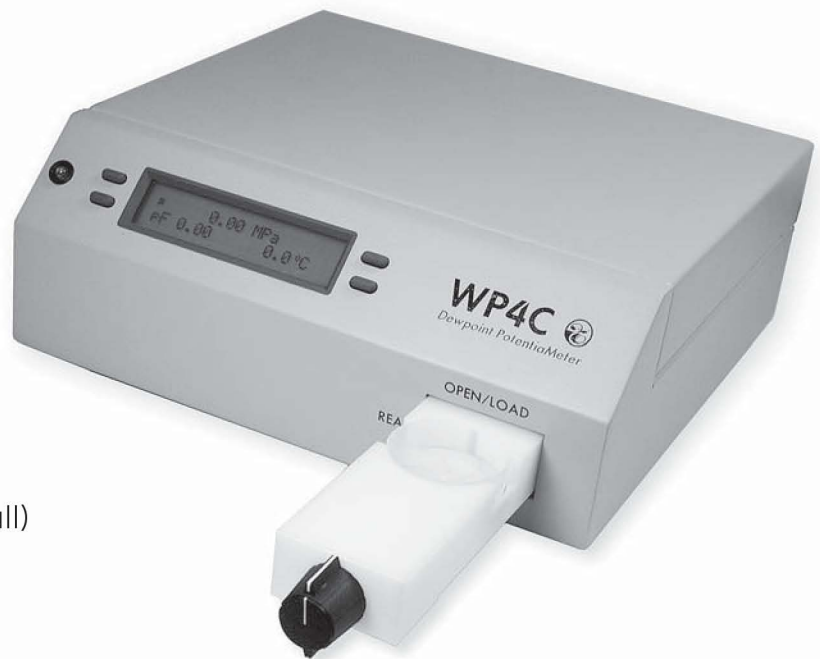
Calibration Standard 0.5 molal KCl (-2.19MPa)

APPLICATIONS

- Soil moisture characteristics
- Root zone water potential profiles
- Leaf water potential
- Seed priming
- Seed water relations
- Expansive soil characterization

NEW FEATURES

- **Precise Mode**—verifies full equilibrium before displaying a final reading.
- **Speedy Equilibration**—new hydrophobic teflon impregnated nickel alloy sample chamber coating reduces equilibration time.
- **Finely-Tuned Adjustments**—new algorithms allow precision calibration and ±0.05 MPa (or better) accuracy.
- **Better range and accuracy**—resolves temperatures to a thousandth of a degree to push the functional range to -0.1 MPa.



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