

New Expanded Water Potential Range

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.*

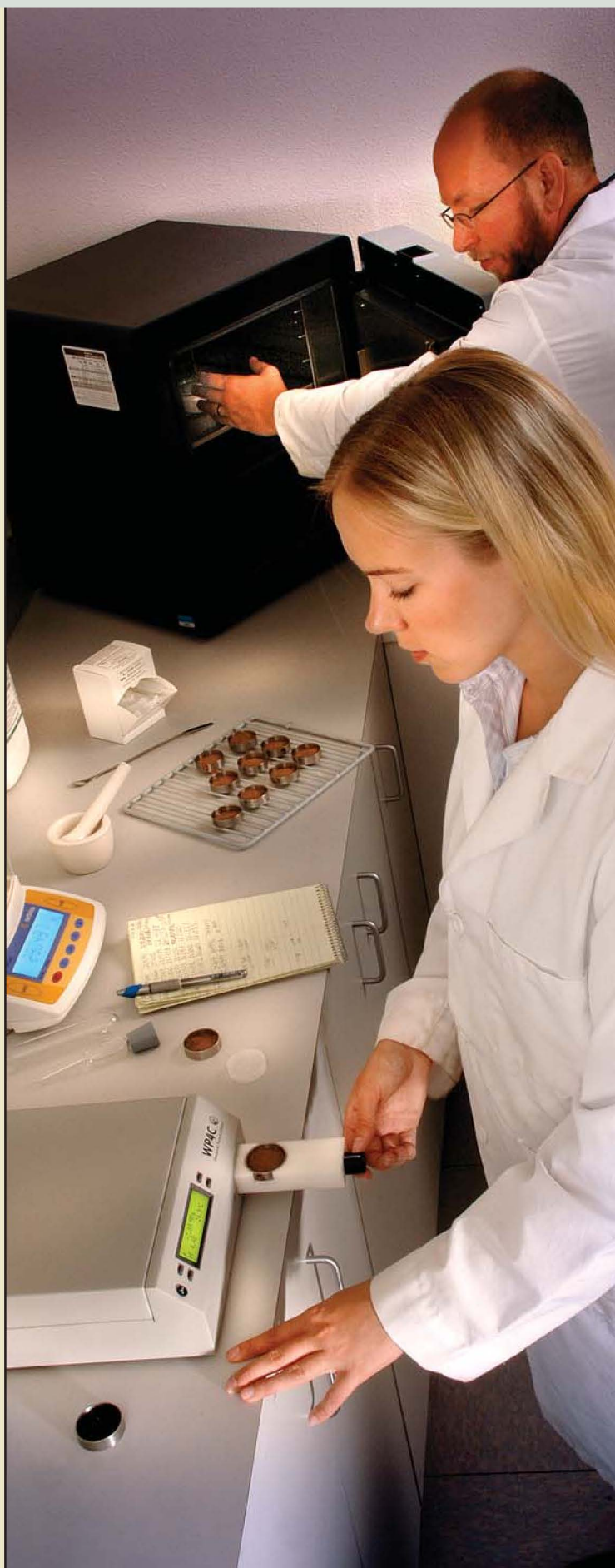
The WP4C measures water potential by determining the relative humidity of the air above a sample in a closed chamber (an AOAC-approved method, conforms to ASTM 6836).

**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



www.decagondevices.com



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

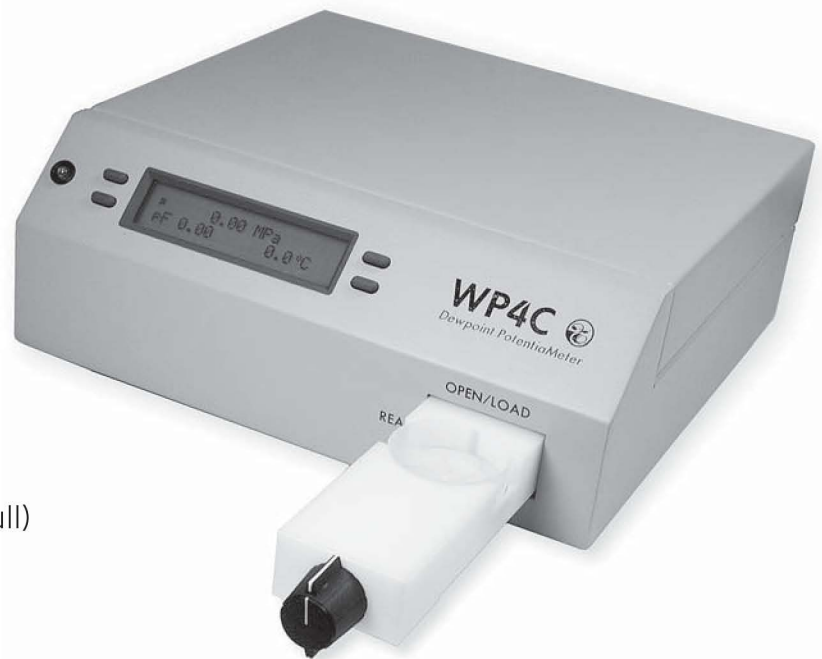
Calibration Standard 0.5 molal KCl (-2.19MPa)

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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