



METER
ENVIRONMENT

SOIL/LAB/HYDROLOGY INSTRUMENTS



WP4C Water Potential Meter

The WP4C determines 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.

KEY FEATURES

- Fast: readings in less than 10 minutes
- Accurate: $\pm 1\%$ from
- Primary measure of water potential
- Measures the combined matric and osmotic potentials
- Durable and easy to clean
- Simple to operate
- Conforms to ASTM D6836
- Can be combined with HYPROP for complete SWCC across all water potential ranges

SPECIFICATIONS

- Range: 0 to -300 MPa
- Accuracy: ± 0.05 MPa from 0 to -5 MPa; 1% from -5 to -300 MPa
- Temperature range: 15-40 °C
- Read time:
 - Soil sample: ~10-15 min (precise mode), <5 min (fast mode)
 - Plant sample: ~20 min