

## Essential Water Potential Data WP-3073



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

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## MAKE FAST, ACCURATE WATER POTENTIAL MEASUREMENTS IN THE LAB

Measure the water potential of soil, soilless substrate, plant tissue, or any porous material in 5 to 10 minutes. Effective range: -0.1 to -300 MPa.

The ATL measures water potential by determining the relative humidity of the air above a sample in a closed chamber

\*Note: ATL 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 ATL User Manual.

How does sample disturbance affect readings?

Read the “Effects of Sample Disturbance on Soil Water Potential Measurements”

## ►► 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 dew point
Range	:	0 to -300 MPa
Accuracy	:	± 0.05 MPa from 0 to -5 MPa, ± 1% from -5 to -300 MPa
Read time	:	Typically 5 to 10 minutes
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

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Water purification

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