

## Essential Water Potential Data WP-3073



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

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

## 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

<b>Operating Environment</b>	: 5 to 43°C (41 to 110°F)
<b>Temperature Control</b>	: 15° to 40°C ± 0.2 °C
<b>Sensors</b>	: 1. Infrared temperature. 2. Chilled-mirror dew point
<b>Range</b>	: 0 to -300 MPa
<b>Accuracy</b>	: ± 0.05 MPa from 0 to -5 MPa, ± 1% from -5 to -300 MPa
<b>Read time</b>	: Typically 5 to 10 minutes
<b>Interface Cable</b>	: Serial cable (included)
<b>Data Communications</b>	: RS232 compatible, 8-bit ASCII code, 9600 baud, no parity, 1 stop bit
<b>Weight</b>	: 3.2 kg (5.2 kg shipping weight)
<b>Universal Power</b>	: 110/ 220V AC, 50/60Hz
<b>Sample dish capacity</b>	: 7ml recommended (15ml full) 25 plastic cups and 10 stainless steel cups included
<b>Calibration Standard</b>	: 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

▶▶ **HPLC Servicing, Validation, Trainings and Preventive Maintenance :**

- HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.
- Trainings :We also take up preventive maintenance to reduce downtime of HPLC's Trainings.
- AMC's/CMC : We offer user training both in-House and at customer sites on PLC principles, operations, troubleshooting.
- Validations : We have protocols for carrying out periodic Validations as per GLP/ GMP/U SFDA norms.
- Instruments : We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.



▶▶ **About Analytical Technologies**

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

▶▶ **Our Products & Technologies**

						
UV/VIS Spectro 2060+ Double Beam	FTIR	Gas Chromatograph 3000	Gas Chromatograph 2979 Plus	Flash Chromatograph	Atomic Absorption Spectrophotometer	Liquid Partical Counter
						
Optical Emission Spectrophotometer	DSC/TGA	NOVA 2020 plus Automated Bio Chemistry Analyzer	HEMA 2020 Hematology Analyzer	Micro Plate Reader/Washer	URINOVA 2800 Urine Analyzer	Total Organic Carbon
						
Fully Automated CLIA	NOVA Basic Semi-Auto Chemistry Analyzer	PCR/Gradient PCR/ RTPCR	Blood Gas Analyzer	Random access Analyzer for immunoassay Proteins & clinical chemistry	Semen Analyzer	Water purification system

▶▶ **Regulatory compliances**



▶▶ **Corporate Social Responsibility**

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



**Analytical**  
**Foundation**

1. Research & Innovation Scientist's awards / QC Professional Award: Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [info@analyticalfoundation.org](mailto:info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

▶▶ **Reach us @**



<b>Corporate &amp; Regd. Office:</b> Analytical House, # E67 & E68, Ravi Park, Vasna Road, Baroda, Gujarat 390 015. INDIA	<b>T:</b> +91 265 2253620 +91 265 2252839 <b>+91 265 2252370</b> <b>F:</b> +91 265 2254395	<b>E:</b> <a href="mailto:info@hplctechnologies.com">info@hplctechnologies.com</a> <a href="mailto:info@multiplelabs.com">info@multiplelabs.com</a> <a href="mailto:info@analyticalgroup.net">info@analyticalgroup.net</a> <a href="mailto:info@analyticalbiomed.com">info@analyticalbiomed.com</a>	<b>W:</b> <a href="http://www.ais-india.com">www.ais-india.com</a> <a href="http://www.analycalgroup.net">www.analycalgroup.net</a> <a href="http://www.hplctechnologies.com">www.hplctechnologies.com</a> <a href="http://www.multiplelabs.com">www.multiplelabs.com</a>	<b>Sales &amp; Support Offices:</b> across the country : Distributors & Channel partners World Wide
--	---	--	--	--

Note : Company reserves rights to add/delete/modify the contents / technical specifications of the catalogue without prior notice.