

AquaVolt+ Precision Moisture Analyzer

	Industrial Gas	Electronic Gas	Natural Gas	Medical & Aviation	Aerospace & Military	Glove Box	Specialty Gases
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Reliable and longstanding staple of the high purity gas industry, the AquaVolt+ provides accurate, calibrationfree technology for trace moisture analysis to very low ppbV. It excels across a range of applications, among them:

- Semiconductor manufacturing
- Refrigerant gases, such as C<sub>3</sub>H<sub>2</sub>F<sub>6</sub>, CF<sub>4</sub>, CH<sub>2</sub>F<sub>2</sub>, and CH<sub>3</sub>F, among others, used to etch polysilicon and for Chemical Mechanical Planarization (CMP)
- Specialty gas applications, including Silane used for wafer deposition and more
- Hexafluoroethane (C<sub>2</sub>F<sub>6</sub>) for semiconductor tool chamber cleaning, removal of silicon dioxide from silicon wafers, and plasma etch
- Government research and industrial laboratories. <u>Example</u>: DNA research for drug development and genetic therapies
- Shielding gases for orbital welding
- Aerospace and military
- Helium and Nitrogen Gases: ~ 0.5 to 1 ppmV for tube trailer moisture verification
- Pressure Swing Adsorbers (PSAs) used in Helium Recovery
- Mobile cart applications

## Well thought out features save space, ease operation, and boost confidence, including:

- Compact, flexible footprint: Two analyzers can fit neatly into ONE 19" RACK!
- Ease of Use: User-friendly keypad interface, bright vacuum fluorescent display (VFD) and helpful menu-driven prompts make it simple to specify, to configure, and to start up for your specific application.
- **Flash upgradable software:** Easily upgrade unit software via RS232 port.
- Adjustable outputs: Flexibility to change output scales in the field. No need to replace electronic components or open the analyzer. Simply open the menu via Mode/Enter key and select Output scale.
- Mass Flow Control: Select your sample gas from the main menu and the microprocessor automatically adjusts the mass flow controller to the proper set point.
- On-line verification: Conveniently verify proper cell operation using simple Delta Flow procedure to check sensor linearity and performance on-line.
- Consistency and precision: The reliability and accuracy of MEECO's time-proven electrolytic sensors are unique among its peers. When you have been doing something since the early 1950's, you approach perfection...







Specifications:					
Detection Limit (LDL):	35 ppbV				
Operating Range (for inert gases):	0-20 ppmV; for Oxygen, the range is 0-12 ppmV				
Accuracy:	$\pm 5\%$ of reading or 35 ppbV, whichever is greater In Oxygen: $\pm 20\%$ of reading or 100 ppbV, whichever is greater.				
Cell type (P2O5)	AILR, AOLR, AHLR				
Gas Matrices Library:	Inert gases, Oxygen, Hydrogen, Clean Dry Air (CDA), Methane, Ethane, Propane, Normal Butane, Isobutane, Carbon, and others, including gas mixtures. For other gases, please consult factory.				
	*For Oxygen (mixtures) AOLR cell is required, for Hydrogen (mixtures) AHLR cell is required.				
Inlet Pressure:	10-3000 psig (0.7 – 207 bar).				
Operating (Ambient) Conditions:	0°C to +60°C (32°F to +140°F), maximum 80% RH non-condensing				
Flow Rate:	Cell: 100 sccm Bypass 1000 sccm				
Displayunit options:	ppmV, ppbV, °C or °F dewpoint				
Gas Connections:	Inlet: 1/4" VCR, Outlet: 1/8" compression. Bypass outlet 1/8" compression				
Signal Output:	Field Configurable Isolated 0-5 VDC or Isolated Current Output 4-20mA, 0-20mA, or 0-24 mA RS - 232 Communications – Standard				
Alarms:	Two (2) user-adjustable moisture levels				
Electrical:	100 – 240 VAC, 50/60 Hz, 50 watts.				
User Interface:	5-key Membrane Keypad. 2-line x 20-character Vacuum Fluorescent Display (VFD).				
Weight:	22 lbs. (10.0kg)				
Dimensions (H x W x D):	7" x 8.19" x 14.66" (17.78 cm x 20.80 cm x 37.24 cm)				
Mounting	Standalone (Optional: 19" Rack Mount (Size: 7"x 19" x 17" (17.8 cm x 20.3 cm x 35.6 cm))				
Approval:	CE Mark				

Service with a Big Smile 😁: The AquaVolt+ comes with a full two-year Certificate of Calibration. The cell can easily be replaced in the field, with no need to disconnect the unit from the sample stream! Also, spare cells now have a two-year storage life if kept in their sealed shipment bags.

