



# AquaVolt 2

## High Precision Moisture Analyzer

Industrial Gas

Electronic Gas

Natural Gas

Medical & Aviation

Aerospace & Military

Glove Box

Specialty Gases

Reliable and longstanding staple of the gas industry, the **AquaVolt 2** provides accurate, calibration-free technology for trace moisture analysis across a range of applications. Measuring industrial gas as dry as 0.5 ppmV, the **Aquavolt 2** also features built-in compensation with safe atmospheric moisture to maintain the analyzer's alacrity while in purge mode. As a trusted partner, your **Aquavolt 2** is always ready!

Exceptional features include:

- ❑ **Wide Dynamic Range:** From 0.5 ppmV to 1000 ppmV moisture detection
- ❑ **Unit of Measure:** Micro-processor-based electronics allow a choice of display options including ppbV, ppmV, ppmW, °C and °F dewpoint
- ❑ **Quick Response:** Remote controllable moisture addition technology for very dry gas and purge gas ensures fast speed of response
- ❑ **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.
- ❑ **Adjustable Outputs:** Flexibility to change output scales in the field. No need to replace electronic components or to access internal components. Simply access the menu via the Mode/Enter key and select the output scale.
- ❑ **European Pharmacopoeia Compliant:** Standards upheld in Europe, South Africa, and Latin America
- ❑ **Freedom from Calibration:** MEECO's electrolytic technology is based on Faraday's Law, providing absolute accuracy traceable to national metrology standards
- ❑ **Low Cost of Ownership:** Two-year instrument warranty, with a two-year calibration of the cell as well, plus fixed price, low-cost Cleaning & Re-sensitizing
- ❑ **Compact Footprint:** Two **Aquavolt 2** analyzers fit neatly into one 19" rack

**Service with a Big Smile 😊:** The **Aquavolt 2** 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 held in their unopened shipment bags.

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## AquaVolt 2 Applications:

Working shoulder-to-shoulder with industrial gas manufacturers and users since the early 1950s, MEECO has a long history of service and reliability in support of your critical needs, such as:

- ❑ **ASU/ Cylinder Filling Plants:** The AquaVolt 2 comes complete with a built-in and automated moisture addition. This keeps the cell in excellent condition and prevents dry out when on purge gas.
- ❑ **Medical Gases:** The AquaVolt 2 conforms to the highest standards for medical gas, based on independent evaluation of our analyzer and specified by Pharmacopoeia standards around the globe, including Europe, South Africa, and Latin America
- ❑ **Welding Gases:** Moisture in the air around the welding point will cause the weld to weaken. “Shielding” gases are used to blanket the weld point with dry gas, pushing the humidity away. Therefore, such shielding gases must be certified for dryness to avoid moisture contamination
- ❑ **Bulk Gas Delivery:** There are many points where atmospheric leaks can occur, allowing moisture contamination into the gas product. MEECO analyzers help ensure that the Certificate of Analysis (COA) remains valid through the entire delivery process.

### Specifications:

Detection Limit (LDL):	0.5 ppmV
Operating Range (for inert gases):	0-1000 ppmV
Accuracy:	±5% of reading or 0.4 ppmV, whichever is greater In Oxygen: ±10% of reading or 3 ppmV, whichever is greater
Cell type (P <sup>2</sup> O <sup>5</sup> )	APR, APO*, or APRH*
Gas Matrices Library:	Inert gases, Oxygen, Hydrogen and others, including gas mixtures. For other gases, please consult factory. *For Oxygen (mixtures) APO cell is required, for Hydrogen (mixtures) APRH cell is required.
Moisture addition	Automated, custom activation level between 0.5 - 10 ppmV
Inlet Pressure:	10-150 psig (2.1 – 10.3 barg).
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
Display unit 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	Stand alone (Optional: 19" Rack Mount (Size: 7"x 19" x 17" (17.8 cm x 20.3 cm x 35.6 cm) )