

# GOW-MAC® Series 7500

## Moisture in Liquids Analyzer

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Series 7500  
(appearances will vary depending upon the application)

Detects H<sub>2</sub>O from low ppm to % concentration

Detects H<sub>2</sub>O levels in turbid samples

*Fast* initial response to moisture levels

*Fast* recovery from high moisture levels

High sensitivity, with high level of repeatability

Cell designed for high flow rates, preventing reformation of water from O<sub>2</sub> and H<sub>2</sub>

Thermostatically controlled cabinet

Stainless steel or corrosion resistant materials

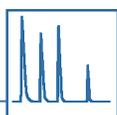
### Series 7500

GOW-MAC's Moisture in Liquids Analyzer is designed to specifically measure the amount of water in liquid streams from ppm to percent levels. This analyzer is available for both corrosive and noncorrosive applications.

Water in contact with some liquids can allow the stream to become turbid, thus eliminating the use of spectroscopic-based analyzers. Leaks from heat exchangers can cause water to enter liquid streams and possibly react with the liquids. Moisture in contact with chlorinated solvents and other chemicals can form acids, allowing possible corrosion of piping and equipment. Since most analyzers only detect water up to 2000 ppm, GOW-MAC® designed an analyzer that tracks the moisture content up to the percent level. This information allows plant personnel to determine if they should shut down an operation immediately due to excessively high water levels, or wait until scheduled repairs can be implemented. The cost of reworking or replacing products and damaged equipment can be significant. The Series 7500 ensures that you are aware of the water content in your liquid streams at all times.

### Operation

The sample liquid is first reduced in pressure, then flows through a thermostated chamber. A bypass is used to ensure the sample is representative of the actual liquid stream. The water is removed from the liquid by gas stripping or head space technique. The water content is detected by the electrochemical gas cell, and the reading is displayed on the panel.



**GOW-MAC**®  
INSTRUMENT CO.

## Series 7500CR for Corrosive Applications

The Series 7500CR resembles the Series 7500, but the flow meters, tubing and other wetted parts are constructed of monel and/or other corrosion resistant materials.

### Typical Applications

Benzene, toluene, ethylene dichloride, vinyl chloride, chlorinated solvents, and many others.

### Data Handling

Using the powerful Chrom Perfect® data handling software package and interfacing with at least a 486 PC with Windows 3.1, a analyst can create methods, design custom reports, view calibration curves, acquire and process data, and create and run batch sequences from a single window.

### Moisture Application Data Sheet

There is a Moisture Application Data Sheet (SB-MA) enclosed. We specialize in manufacturing custom analyzers. Therefore, we ask you to give us your specific application so we can quote on the most economical and specific analyzer for your needs.

### Ordering Information

<u>120 V</u>	<u>240 V</u>	
Series 7500	Series 7502	Moisture in Liquids Analyzer
Series 7500CR	Series 7502CR	Moisture in Corrosive Liquids Analyzer

### Specifications

Monitoring Range:	0 - 10,000 ppm
Response Time: (for moisture in Cl <sub>2</sub> )	20 to >1 ppm in 5 minutes; 159 to 21 ppm and vise versa in 3 minutes.
Sample Pressure:	5 - 20 psig
Sample Flow Rate:	100 mL/min.
Outputs:	4 - 20 mA or 0 - 1 V
Bypass Flow:	>5 GPH
Accuracy:	± 5% of range
Sensitivity:	10 ppm by volume
Repeatability:	5% of reading
Air Requirements:	60 psig @ 2 scfm
Temperature Range:	0 °C - 49 °C (32 °F - 120 °F)
Gas Connections:	1/4" Swagelok® tube
Power Requirements:	<i>Series 7500:</i> 120 VAC, 60 Hz, 2 Amp <i>Series 7502:</i> 240 VAC, 50 Hz, 2 Amp
Dimensions:	65" H x 23" W x 20" D (includes rack) (165 cm x 58.42 cm x 50.80 cm)
Weight:	125 lbs (net) (56.25 kg)

Note: Specifications are subject to change without notice. Specifications will vary depending upon the application.

### Warranty

All instruments sold by GOW-MAC are warranted for a period of one year against defects in materials and workmanship.

The seller warrants that the products supplied conform to the specifications assigned thereto. There are no other warranties either implied or expressed. Seller's liability is limited specifically to the cost or assigned value of the items sold.



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