



GOW-MAC[®]
INSTRUMENT CO.

Series 1400 Trace H₂O in Argon Analyzer

Trace moisture measurement
made fast, simple, reliable, and



Features

- Guaranteed 10 ppb sensitivity
- Measuring system based on spectral emission of argon plasma
- Patented electro-optical modulation
- Cannot “blind” the instrument
- On-line continuous analysis
- Fast response
- Recovers quickly from high moisture levels
- No permanent degradation of detector due to high moisture levels
- Extreme periods of acute dryness will not affect response or detector
- No valves, columns, or carrier gas
- No radioactive source
- No sensor or detector to replace
- Maintenance free
- 19” Rack Mount or Bench Top
- Two ranges available:
 - 0-2/0-20 ppm
 - 0-5/0-50 ppm

Practical Applications

- Air separation plants
- Argon purification plants
- Cryogenic truck loading stations
- Specialty gas laboratories
- Process control
- New line certification
- Cryogenic steel manufacturing
- Chemical plants
- Gas management/monitoring systems
- Quality control for truck fills & gas cylinders
- Welding gas management
- Semiconductor manufacturing

Specifications — Series 1400 Trace Moisture in Argon Analyzer

Measurement Ranges	0 - 2 ppm H ₂ O in Argon 0 - 20 ppm H ₂ O in Argon 0 - 5 ppm H ₂ O in Argon 0 - 50 ppm H ₂ O in Argon
Accuracy	± 0.01 ppm H ₂ O in Argon on 0 - 2 ppm range ± 0.25 ppm H ₂ O in Argon on 0 - 20 ppm range ± 0.05 ppm H ₂ O in Argon on 0 - 5 ppm range ± 0.50 ppm H ₂ O in Argon on 0 - 50 ppm range
Response Time	90% in 10 seconds or less
Sample Flow Required	2 scfh
Sample Connections	1/4" VCR® sample inlet 1/4" Swagelok® vent
Ambient Temperature Limits	60 - 95 °F (16 -35 °C)
Maximum Operating Pressures	10 psig at sample inlet 10 psig on analytical cell
Nominal Sample Inlet Pressure	8 - 10 psig
Display	LED Digital
Output	4 - 20 mA Dry contacts for range selection indication Dry contacts for over range indication
Detector Type	Spectroscopic emission
Sensitivity	± 0.01 ppm H ₂ O in Argon (Series 1400-A/1402-A) ± 0.10 ppm H ₂ O in Argon (Series 1400-C/1402-C)
Power	~ 100 W, 120/230 VAC, 50/60 Hz
Dimensions	5.25" H x 16.625" W x 14.625" D (13.34 x 42.23 x 37.15 cm)
Weight	25 lbs. (11.3 kg)

Specifications and features will vary depending upon system configuration and are subject to change without notice. The above specifications are established during design, but are not to be construed as test criteria for every product.

Ordering Information

Series 1400-A.....0-2/0-20 ppm Range, 115 V
Series 1402-A.....0-2/0-20 ppm Range, 230 V

Series 1400-C.....0-5/0-50 ppm Range, 115 V
Series 1402-C.....0-5/0-50 ppm Range, 230 V



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