

SemiChem APM 200, 3 Comp Floor Mount

Provides a lab quality measurement in a durable, reliable, online platform

The SemiChem APM 200 (advanced process monitor) offers process engineers the accuracy, reliability, and flexibility for a higher degree of efficiency and consistency to meet the demands for higher yield and zero defect tolerance. In the ultra-competitive microelectronics industry, the most advanced facilities can ill afford highly expensive processes without the use of sophisticated monitoring and control to ensure consistent wafer manufacturing.

Our SemiChem APM 200 allows quantitative chemical concentration. Full on-line chemical monitoring enables real-time correction of bath composition and therefore stable control of the process conditions; product consistency is maintained.

Product yields increase when a quantitative process composition is known. Variations that can affect product quality are immediately apparent and can be quickly corrected before loss of product quality.

Product Option

- Additional sensors

Advantages

- Increased tool throughput
- Decreased chemical costs
- Real-time process monitoring
- Insurance against batch loss
- Improved cost of ownership



SemiChem APM 200, model AZ010353 and AZC10353 samples, analyzes, and reports quantitative chemical concentration.

APPLICATIONS

- Copper CMP
- Tungsten CMP
- Wet etch
- Cleans
- DSP+
- Nitride etch
- PAN etch
- Piranha etch
- HF

FEATURES

- Eight, 4-20 mA analog outputs
- 16 programmable relays, eight per measuring cell
- Ethernet and RS232 serial
- Two color touchscreens
- Two measuring cells
- Semi S2 and NRTL certified
- Integrated reagent storage
- Two sample points
- Six 5 mL digital burettes
- Multiple sensor inputs
- Independent or parallel titrations on one sample

SPECIFICATIONS

Analysis Methods	Potentiometry/standard addition/photometry
Accuracy¹	± 0.2% of displayed value
Precision¹	± 0.2% relative error
Measurement Time	Less than 5 minutes/analysis (application dependent)
Calibration Interval	At start-up ²
Sample Consumption	Less than 5 mL/analysis
Sample Size	0.05 to 5 mL (application dependent)
Sample Temperature	Up to 93°C (200°F)
Water Consumption	Less than 1000 mL/analysis
Sample Inlet/Return	Less than 30 psi 0.5 liter/minute ¼" OD flare fitting 1" FPT containment coupling
Deionized Water	20 – 40 psi 2.0 liters/minute ¼" OD flare fitting
CDA	60 – 80 psi ¼" OD quick fitting
Process Drain	¾" NPT gravity drain
Cabinet Drain	¾" NPT gravity drain
Exhaust	3.5" stub 50 CFM
Power	100/240 VAC, 50/60 Hz, 1/0.5A
Overall Dimensions	61.50" H x 31.00" W x 17.50" D

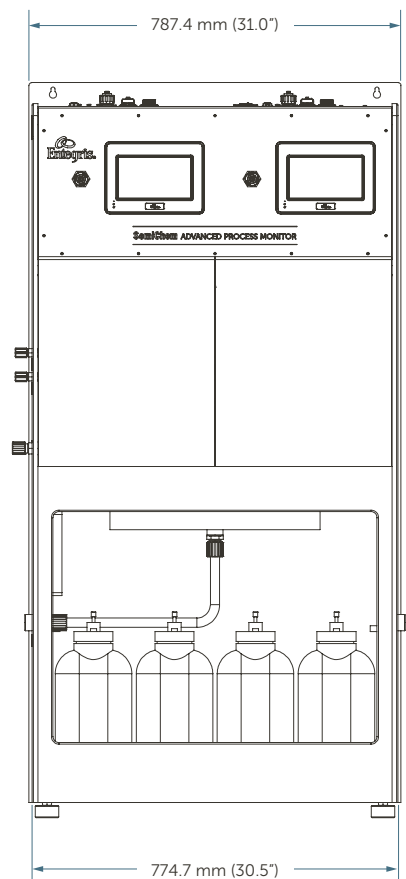
¹ Refers to "hardware" only. External factors such as application, chemistry, and process conditions can affect system accuracy and precision.

² This does not include calibration of pH sensor. Please refer to the Installation and Operating Manual for more information. Entegris believes the data contained herein is factual, and the opinions expressed are of qualified experts regarding the results of conducted tests, the data is not to be taken as warranty or representation that Entegris assumes legal responsibility. The data is offered solely for consideration, investigation, and verification. Any use of this data and information must be determined by the user to be in accordance with federal, state, and local laws and regulations. All specifications are subject to change without notice.

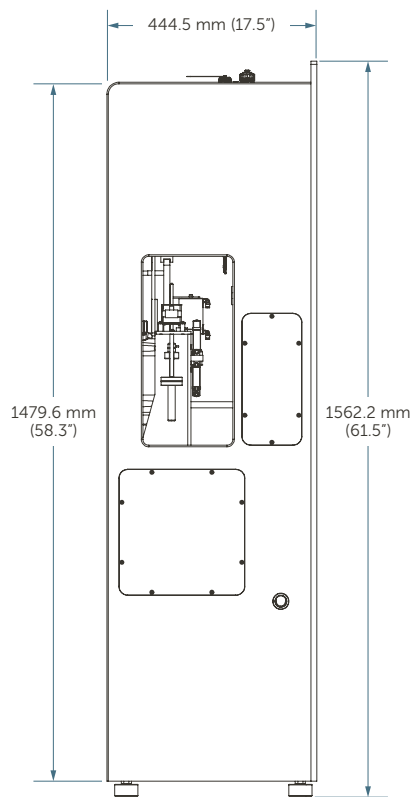
DIMENSIONS

SemiChem APM 200, 3 Comp Floor Mount AZ010353

Front View



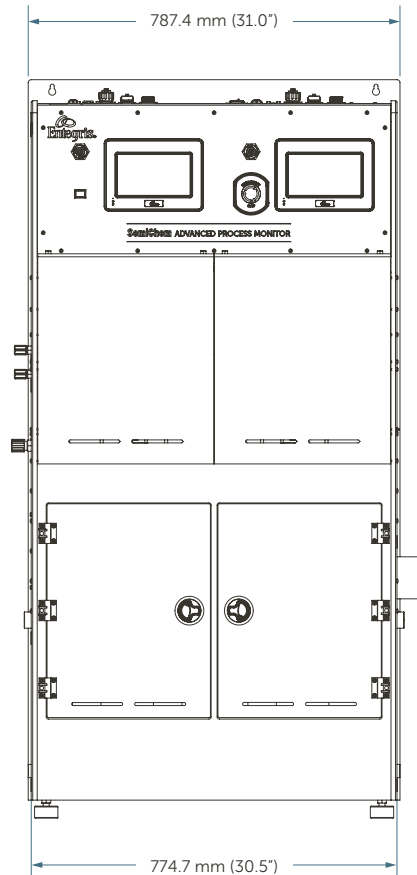
Side View



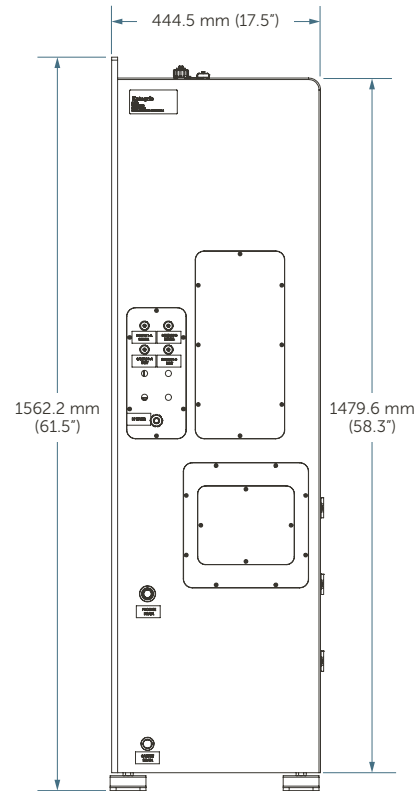
DIMENSIONS (CONTINUED)

SemiChem APM 200, 3 Comp Floor Mount AZC10353

Front View



Side View



FOR MORE INFORMATION

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