

A graphic of a stylized, curved path of blue dots of varying sizes, creating a sense of motion or a signal trail.

# Maestro

Advanced Automatic  
Titration Processor for  
Today's Manufacturing

A logo consisting of a stylized sunburst or fan-like shape made of yellow lines radiating from a central point.

**TECHNIC INC**

# Maestro

Technic, a leader in Analytical Controls, is pleased to introduce Maestro; a universal, automatic process titration system designed for exceptional precision and ease of operation. Engineered with versatility in mind, Maestro's emphasis on customizable modular configuration aims to bring chemical processes online for all industries. Maestro incorporates state-of-the-art sampling valves; eliminating costly filters and timely maintenance to enter the market as an affordable and reliable analytical solution.

- Modular Construction
- Custom Configurations
- Filter-Free Sampling (for particles  $\leq 5$  mm)
- Versatile Data Communication
- SCADA Integration
- Ingress Protected Enclosure
- Remote Operator Access
- Minimal Maintenance
- Low Cost-of-Ownership



## Analyses for Industries

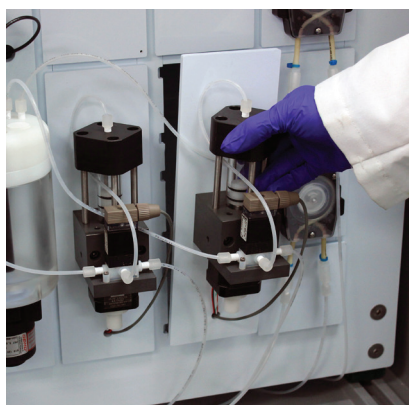
Metal Finishing	Free/Total Acid ( $\text{H}_3\text{PO}_4$ ), Iron ( $\text{Fe}^{2+}$ ), Nitrite ( $\text{NO}_2^-$ )
Mining	Silver ( $\text{Ag}^+$ ), Copper ( $\text{Cu}^{2+}$ ), Tin ( $\text{Sn}^{2+}$ )
Chemical	Hydrogen Peroxide ( $\text{H}_2\text{O}_2$ ), Chloride ( $\text{Cl}^-$ ), Ozone ( $\text{O}_3$ )
Power Gen.	Boron ( $\text{H}_3\text{BO}_3$ ), Sodium ( $\text{Na}^+$ ), Chlorine ( $\text{Cl}_2$ )
Waste Water	Ammonia ( $\text{NH}_3$ ), Nitrate ( $\text{NO}_3^-$ ), Cyanide ( $\text{CN}^-$ )
Drinking Water	Hardness ( $\text{Ca}^{2+}$ & $\text{Mg}^{2+}$ ), Fluoride ( $\text{F}^-$ ), Alkalinity ( $\text{H}_2\text{CO}_3$ )
Textile	Indigo ( $\text{C}_{16}\text{H}_{10}\text{N}_2\text{O}_2$ ), Hydrosulfite ( $\text{S}_2\text{O}_4^{2-}$ )
Food/Beverage	Phosphoric Acid ( $\text{H}_3\text{PO}_4$ ), Ascorbic Acid ( $\text{C}_6\text{H}_8\text{O}_6$ )
Semiconductor	TMAH ( $[\text{CH}_3]_4\text{NOH}$ ), Nitric Acid ( $\text{HNO}_3$ ), Hydrofluoric Acid ( $\text{HF}$ )

Contact us about your specific application and bring your processes online!

## System Features



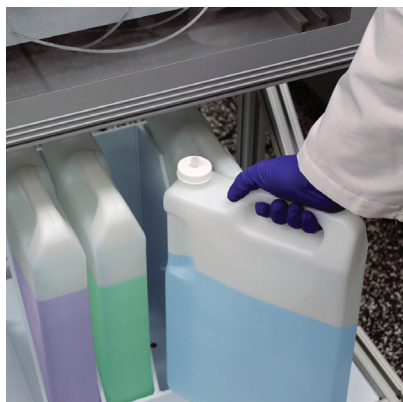
Backlit touch screen controls for monitoring and reporting analyses, configuring system alarms, and exporting data.



Easy access to fluidic and analytical instrumentation for hassle-free maintenance in the field or at the bench.



Modular panel for customizable configurations, fast process transitions, and improved serviceability.



User friendly reagent storage system allows for quick replenishment and level alerts to eliminate downtime.

## Specifications

### Analysis Methods

Titration

Dynamic Standard Addition

### Measurement

Repeatability typical 1–2%

Inaccuracy typical 1–2%

Analysis Time typical approx. 10 minutes

### Sampling and Sample Streams

Sampling batch wise

Sample Frequency programmable

Sample Streams 1–5

Sample Volume  
0.25–30 mL  
100 mL  
150 mL  
200 mL

Particle Size  $\leq 5.00$  mm

Sample Temperature 5–50 °C / 41–122 °F

Sample Pressure 0–0.5 bar / 0–7.2 PSI

### Maintenance

Weekly visual inspection

Monthly visual inspection  
reagent refill

Yearly hardware inspection

### Connectivity

Communication  
RS232  
RS485  
Modbus

Analog Outputs 4 x 0/4–20 mA

Digital Inputs  
remote start  
remote stop

Digital Outputs (on request)

### General

Power Supply  
105–240 VAC  
50...60 Hz

Display 7" LCD w/ backlight

Accessibility password protected

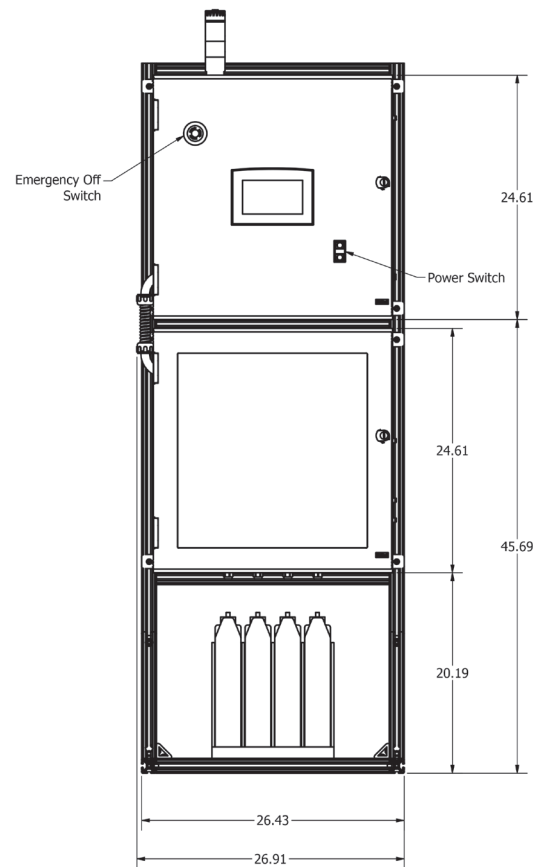
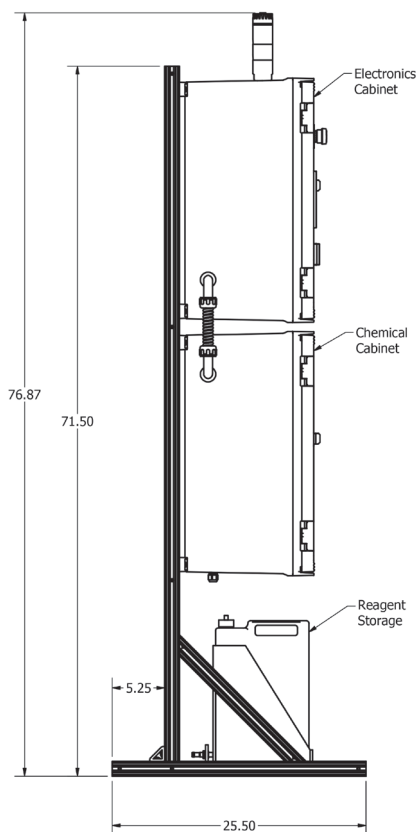
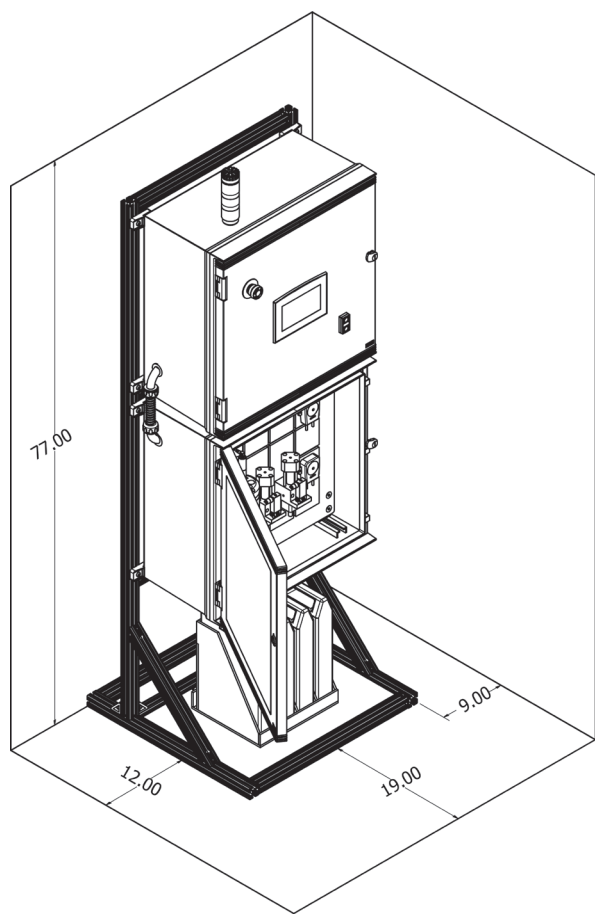
Housing fiberglass, PP, 316SS

Ingress Protection IP66 and NEMA 4X

Ambient Temperature 5–40 °C



# Maestro Dimensions and Clearance



## About Technic

Since its inception in 1944, Technic Inc. has remained a financially strong private corporation and has established a global reputation for technical excellence in the electrodeposition of precious metals. Following the expansion of our product lines through organic growth, strategic partnerships, and acquisitions, Technic has become a global leader in:

- Specialty Chemicals
- Surface Finishing Equipment
- Engineered Powder and Flake
- Analytical Control Tools

Our primary end use markets include:

- Semiconductors
- Electronic Connectors
- Photovoltaic Cell Manufacturing
- Electronic Components
- Printed Circuit Boards
- Industrial Finishing
- Decorative Applications
- Medical Finishing Applications

Technic currently operates over 20 global facilities in 14 countries within North America, Asia, and Europe. Our Advanced Engineered Solutions approach to customer projects allows Technic to add substantial and differentiated value to the markets and customers we serve. We look forward to helping you realize the maximum potential from your new product development goals.



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