AMETEK SI

# EchemLab XM

## Potentiostat / galvanostat for electrochemistry

Application-focused XM platform for corrosion, coatings and physical electrochemistry.




Compliance voltage

**Pstat: ±8 V; HV: ±100 V** [1]

## Specifications

### PERFORMANCE

| | | |
|---|---|---|
| Current resolution | 1.5 pA | [1] |

### MEASURING RANGE

| | | |
|---|---|---|
| Polarization voltage | Pstat: ±8 V; HV: ±100 V | [1] |
| Current measurement ranges | 300 mA to 30 nA | [1] |
| EIS frequency range | 10 µHz–1 MHz | [1] |

### ELECTRONICS & SIGNAL

| | | |
|---|---|---|
| Maximum output current | Pstat mode: ±300 mA; HV mode: ±100 mA | [1] |
| Auxiliary inputs | 4 differential auxiliary voltage inputs (same spec. as RE); DC measurement synchronized to RE; EIS to 1 MHz | [1] |
| Minimum pulse duration | 1 µs | [1] |

### SOFTWARE & DATA

| | | |
|---|---|---|
| Software | XM-Studio included | [2] |

### CONNECTIVITY & INTERFACE

| | | |
|---|---|---|
| Cell connections | 2, 3 or 4 terminals | [1] |

### ENVIRONMENT & RATINGS

| | | |
|---|---|---|
| Compliance voltage | Pstat: ±8 V; HV: ±100 V | [1] |

### GENERAL

| | | |
|---|---|---|
| Maximum data acquisition rate | 1 MS/s | [1] |
| Floating measurement / isolation | Floating | [1] |

## Sources

**[1] EchemLab – Apps-XM series (EchemLab XM brochure, US Letter)**
AMETEK Scientific Instruments · brochure · p. 8, Specifications – Working Electrode (WE); p. 8, Specifications – Counter Electrode (CE); p. 8 (WE/RE 'Maximum ADC sample rate'); p. 4 · checked 2026-10-16
https://www.ameteksi.com/-/media/ameteksi/download_links/documentations/echemlab-xm/echemlab-xm-us-letter.pd...

**[2] EchemLab XM Potentiostat Galvanostat**
AMETEK Scientific Instruments · product-page · Highlights · checked 2026-10-16
https://www.ameteksi.com/products/potentiostats/single-channel/apps-xm-series/echemlab-xm

Every value is taken from the manufacturer's own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer's published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.