AMETEK SI

PARSTAT MC-AT multikanals potentiostat

Multichannel electrochemical system

Multichannel potentiostat system with a compact three-slot chassis for parallel electrochemical measurements.



Measurement channels
1 per PMC-1000-AT module; up to 3 without booster slots [1]

Compliance voltage
±12 V [1]

Specifications

PERFORMANCE

Voltage resolution	24-bit, 150 nV	[1]
Current resolution	24-bit, 30 fA	[1]

MEASURING RANGE

Polarization voltage	±10 V	[1]
EIS frequency range	10 µHz–1 MHz on main channel and Aux-1 / Aux-2	[1]

ELECTRONICS & SIGNAL

Measurement channels	1 per PMC-1000-AT module; up to 3 without booster slots	[1]
Maximum output current	±2 A per PMC-1000-AT module	[1]
Auxiliary inputs	2 differential, synchronized DC/EIS inputs; thermistor input	[1]

SOFTWARE & DATA

Software	Aspire	[1]

ENVIRONMENT & RATINGS

Compliance voltage	±12 V	[1]

ORDERING & ACCESSORIES

External current booster	±10 A per booster; ±20 A uses 2 chassis slots	[1]

GENERAL

Chassis slots	3, Ethernet chassis	[1]
Maximum data acquisition rate	1 MS/s on main and auxiliary inputs	[1]

Models

Model	Measurement channels per card	Host system	Maximum current without booster	Polarization voltage
PMC-1000-AT	1 [1]	PARSTAT MC-AT, 3 slots [1]	±2 A [1]	±10 V [1]

Model	Compliance voltage	Best voltage resolution	Best current resolution without LCI	Maximum acquisition rate
PMC-1000-AT	±12 V [1]	24-bit; 150 nV [1]	24-bit; 30 fA [1]	1 MS/s [1]

Model	EIS frequency range	Software	Floating measurement	LCI resolution with option
PMC-1000-AT	10 µHz–1 MHz [2]	Aspire [1]	Isolated and floating [3]	122 aA with the LCI low-current interface (option) [1]

Model	Auxiliary channels	Data storage
PMC-1000-AT	2 differential channels, DC/EIS [1]	Direct to disk, autonomous [1]

Sources

[1] PARSTAT MC-AT Multichannel Potentiostat
AMETEK Scientific Instruments · product-page · product page; Differentiated Specifications – PMC-1000-AT column · checked 2026-10-16
https://www.ameteksi.com/products/potentiostats/multichannel/parstat-mc-at-multichannel-potentiostat

[2] PARSTAT MC Family – multichannel potentiostat and galvanostat
AMETEK Scientific Instruments · brochure · p. 3 · checked 2026-10-16
https://www.ameteksi.com/-/media/ameteksi/download_links/documentations/parstat-mc/parstat-mc-brochure-us-le...

[3] PARSTAT MC Multichannel Potentiostat
AMETEK Scientific Instruments · product-page · Differentiated Specifications – Grounding · checked 2026-10-16
https://www.ameteksi.com/products/potentiostats/multichannel/parstat-mc

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.