

# PARSTAT MC 200

Double the Functionality...



The PARSTAT MC 200 (PMC-200) provides core electrochemical test functionality in a dual-channel format. For decades, AMETEK has benefited from closely partnering with leaders in the electrochemical research community. The PMC-200 is the result of listening to our users and designing a product for their most common electrochemical tests. By focusing on performance within these protocols, we have developed a solution for users that demand high-channel count, with high-performance.

- Maximize throughput with two channels per module, each channel with EIS and core DC testing functionality
- 1-Amp of current standard allows analysis of larger batteries at higher rates
- 24-Bits Analog-to-Digital Converter (ADC) components delivering the highest quality voltage and current resolution for measured responses
- Installs into the PARSTAT MC Chassis in minutes with no hardware or training. The PMC-200 can be operated alongside other PMC models, maximizing the capabilities of your PARSTAT MC.

PMC-200 uses advanced design to reduce the number of discrete components allowing you to double the capacity per module while remaining a top-performer in resolution. Each channel also benefits from the ability to run high-quality Electrochemical Impedance Spectroscopy (EIS) experiments faster, dramatically improving experiment duration at low frequencies, and overall data transfer speed. Providing EIS capability on every channel allows users to study their samples with high accuracy to 100 kHz, sufficient to cover the measurement range of energy devices.

## Key Specifications

System Performance PMC-200	
Channels per Module	2
EIS Capability	Standard on Both Channels (AC/DC)
Data Acquisition Rate	4 $\mu$ s (250 kHz at 24-bit)
Current Measurement	
Maximum Current	1 A, continuous
Standard Lowest Current Range	2 $\mu$ A
Minimum Current Resolution	24-bits, 238 fA
Input Impedance	>10 <sup>11</sup> $\Omega$ in parallel with <5 pF, typical
Voltage Measurement	
Compliance Voltage	$\pm$ 10 V
Applied Voltage Range	$\pm$ 10 V
Voltage Measurement Resolution	24-bits, 1.2 $\mu$ V
Electrochemical Impedance Spectroscopy (EIS)	
EIS Frequency Range	1 mHz to 100 kHz (PMC-1000 to 1MHz, PMC-2000A to 7 MHz)
Software	
Software	Core VersaStudio Actions (DC and AC)

\*Specifications subject to change.

## Ordering Information

Model Number	Description
PMC-200	PMC Module with 2 Channels AC/DC



**USA**  
 Tel: (865) 425-1289  
 or (865) 482-4411  
 Fax: (865) 481-2410

**Europe**  
 Tel: +44 (0)1252 556800  
 Fax: +44 (0)1252 556899

Please see our website for a complete list of our global offices and authorized agents

