

MACCOR

BATTERY & CELL TEST EQUIPMENT WORLD WIDE

MODEL 4300 DESKTOP AUTOMATED TEST SYSTEM

The Model 4300 has all the power of Maccor's Series 4000 floor standing cabinet conveniently packaged in a desktop cabinet.



The Model 4300 is supplied as a complete turnkey system with Tester PC and software. Powered by Maccor's standard test system software and utilizing the same technology found in Maccor's high-precision Series 4000 Automated Test System, the Model 4300 is the perfect mid-range desktop test system in Maccor's line of high quality, dependable test systems.

The Model 4300 is supplied with a PowerPole® interface for easily connecting cables or cell holders. Each desktop cabinet is available with up to 8 test positions, however, test systems can have multiple test cabinets.

The Model 4300 can be configured with multi-current range channels, which have a current control range of 300nA to 5A. These multi-current range channels can be configured for voltage ranges of -2V to +8V **or** 0V to +5V as standard. The accuracy for current and voltage on these channels is $\pm 0.02\%$ FSR. Alternately, the system can be configured with single current range channels, which can be configured for higher voltages and currents. The single current range channels have a current accuracy of $\pm 0.05\%$ FSR and a voltage accuracy of $\pm 0.02\%$ FSR.

Standard Features and Functions

- Adaptable To A Wide Range Of Products (i.e. batteries, super-capacitors, fuel cells, etc.) and Battery Chemistries
- Easily Scalable To Support Capacity Expansion At Acceptable Costs
- Easy To Use And Maintain Minimizing Labor Force
- Customizable To Meet Varying And Evolving Customer Requirements
- Easily Adaptable To Meet A Wide Range Of Testing Needs
- Each Test Station Operates Independently Of The Other Positions
- Can Be User Programmed To Operate In Steps Of Constant Current, Constant Power, Constant Voltage, Constant Resistance, or Voltage Scan (Cyclic Voltammetry).
- With the MIMS Client software, data is easily viewed graphically with different standard graphs. Several Chart types may be displayed at the same time with the ability to store the display settings as a template. Data from different devices may be overlaid on a single chart or viewed side-by-side.

Specifications

Configuration 1 – 8 channels

Current

Current Range Per Your Specifications, currents up to 15 Amps available†

Maximum System Charge Current Per Your Specification, up to 120 Amps

Minimum Full Scale Current Per Your Specifications, 150 μ Amps available

† Higher channel currents (up to a maximum of 120 Amps) can be supplied on systems with fewer channels.

Voltage

Minimum Measurement -2 Volts‡

Measurement Range Per Your Specifications, voltages up to 96 volts available

Typical Voltage Range -2V to +8 Volts

‡ Lower minimum measurements can be attained. These would need to be discussed and agreed upon.

Power

Maximum System Charge Power 800 Watts

Maximum System Discharge Power 1200 Watts

Time

Minimum Step Time 10 mS*

Control, Measurement, and Adjustment every 10 mS

* 4.6 mS Telecom Pulsing Option Available

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