

# WBCS3000M1K8

## 8 Channel Battery Test System



- **Fixed specification**
- **$\pm 10A$  current over 4 current ranges**
- **100Watt output power per channel**
- **Potentiostat/Galvanostat circuit**
- **High accuracy**
- **Sampling time of 10msec**
- **Plug-in channels for easy maintenance**
- **LAN communication**

### Battery Charge/Discharge Test System for mid power application

The 8 channel battery test system, **WBCS3000M1K8**, is designed for energy storage devices such as batteries, fuel cells, and supercapacitors. As a spin-off of WBCS3000M1, the **WBCS3000M1K8** has the same features as WBCS3000M1 but the channel expansion of **WBCS3000M1K8** is not available.

The **WBCS3000M1K8** has four current control range of 10mA to 10A and voltage range of -5V to +5V. These specification are fixed and cannot be tailored. The accuracy for current and voltage on these channels is  $\pm 0.02\%$  FSR. The sampling time is 10msec.

The **WBCS3000M1K8** does not only support various techniques for battery studies, but also carries out electrochemical techniques such as corrosion test techniques, electro-analytical techniques, cyclic voltammetry, chronoamperometry, and potentiometry, etc. and this feature allows user to perform general Echem experiments.

The Smart Interface(SI) software is a convenient and powerful tool allowing:

- easily making schedule files by using schedule editor
- selecting pre-defined techniques
- classifying/grouping channels by user's purpose
- monitoring detailed test data
- providing general/cycle graph format
- converting the data to ASCII or excel format

The **WBCS3000M1K8** is supplied with eight cell cables and can communicate with the computer by the way of a Local Area Network(LAN).

## ● Features

- Potentiostat/Galvanostat circuit : no time delay between the charge and discharge cycles
- Supports techniques for battery studies such as CC/CV test, CC/CC test, CV test, as well GITT/PITT test for calculation of diffusion coefficient.
- The various safety functions are provided to protect the cell and system from being damaged.
- The obtained data can be analyzed by IVMAN™ software without license code for further analysis.

## ● For Energy Test

- Charge/Discharge(CC/CV) Test
- Constant Current Charge/Discharge(CC/CC) Test
- IV Curve Test
- Electrochemical Voltage Spectroscopy(EVS) Test
- Galvanostatic Intermittent Titration Technique(GITT) Test
- Potentiostatic Intermittent Titration Technique(PITT) Test
- Cyclic Voltammetry
- Potentiostatic Experiment With Half Cell

## ● Options

- Battery Jig
- Test Cell
- Dilatometer

## ● Specifications

Control voltage range	±5V
Control current range	10A, 1A, 100mA, 10mA (4 ranges)
LED	Run: 1ea, Mode: 2ea
Input impedance	10 <sup>12</sup> Ohm
Cell connection	4 probe type, alligator clip cables
No. of channels	8
Rise time	<50usec
Voltage accuracy	±0.02% f.s.
Current accuracy	±0.05% f.s.
<b>Voltage Control/Measurement</b>	
Full scale ranges	±5V
Resolution(16 bits)	0.15mV
<b>Current Control/Measurement</b>	
Full scale ranges	Max. 10A@5V
Resolution	16 bit(0.0015% f.s)
Communication	TCP/IP
Sampling time	10msec

All specifications are subject to change without notice.



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