WonATech

WBCS3000K8
8 Channel Battery Test System

- **Fixed specification**
- **±1A current over 4 current ranges**
- **Applied voltage range of ±5V**
- **Potentiostat/Galvanostat circuit**
- **High accuracy**
- **Sampling time of 10msec**
- **Plugin channels for easy maintenance**
- **LAN communication**

Battery Charge/Discharge Test System
for standard application

The 8 channel battery test system, WBCS3000K8, is designed for general practices when researching materials to optimize battery performance. As a spin-off of WBCS3000S, the WBCS3000K8 has the same features as WBCS3000S but the channel expansion of WBCS3000K8 is not available.

The WBCS3000K8 has a current control range of 1mA to 1A and voltage range of -5V to +5V and these specification are fixed. The accuracy for current and voltage on these channels is ±0.02% FSR. The sampling time is 10msec.

The WBCS3000K8 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 WBCS3000K8 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
- ■ Coin Cell Holder
- ■ Test Cell
- ■ Dilatometer

● Specifications

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