

WBCS3000Ls32

32 Channel Low Current Battery Test System



- 32 channel system
- Channel expansion is available
- Perfect for coin cell test
- $\pm 10\text{mA}$ current over 4 current ranges
- Applied voltage range of $\pm 5\text{V}$
- Potentiostat/Galvanostat circuit
- High accuracy
- Sampling time of 10msec
- Plug-in channels for easy maintenance
- LAN communication

32 Channel Battery Charge/Discharge Test System for low current application

The 32 channel battery test system, the **WBCS3000Ls32**, is designed for low current applications and it allows multichannel operation users to set up a battery test system at an affordable price.

Coin cells are often used to test the capacities and rate capabilities of new materials in the initial stage. The **WBCS3000Ls32** can be a perfect choice for coin cell testing and half cell testing. Not only does the **WBCS3000Ls32** 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 electrochemical experiments.

The **WBCS3000Ls32** has four current control ranges of 10 μA to 10mA and voltage range of -5V to +5V as standard. The accuracy for current and voltage on these channels is $\pm 0.02\%$ FSR. The sampling time is 10msec for a 32 channel system.

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 compact size **WBCS3000Ls32** 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.
- High sampling rate for calculating dynamic charge/discharge capacity ratings.
- Minimum order channel is 16 channels and extra channels can be added by the unit of 16 channels.
- 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	10mA, 1mA, 100uA, 10uA (4 ranges)
LED	Run: 1ea
Input impedance	10 ¹² Ohm
Cell connection	4 probe type, alligator clip cables
No. of channels	16 (for minimum order channel) 32 (for a standard system)
Channel expansion	up to 128 channels
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. 10mA@5V
Resolution	16 bit(0.0015% f.s)
Communication	TCP/IP
Sampling time	10msec (20msec with option)

All specifications are subject to change without notice.



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