

WPG100e

Potentiostat/Galvanostat



- *Temperature input & Auxiliary Voltage input are standard*
- *$\pm 1A$ current over 8 current ranges*
- *Applied voltage range of $\pm 10V$*
- *Proper Instrument for long term experiment*
- *High accuracy*
- *Sampling time of 1msec*
- *LAN communication*

Potentiostat/Galvanostat for standard application

The potentiostat/galvanostat, **WPG100e**, is designed for general purpose electrochemical experiments and its versatile features allow users to perform a wide range of electrochemical research and development.

The **WPG100e** has a current control range of 100nA to 1A and voltage range of -10V to +10V as standard. The accuracy for current and voltage on these channels is $\pm 0.02\%$ FSR. The sampling time is 1msec.

The **WPG100e** does not only support various electrochemical techniques such as corrosion test techniques, electro-analytical techniques, cyclic voltammetry, chronoamperometry, and potentiometry, etc. but also carries out experiments on batteries. 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 **WPG100e** can communicate with the computer by the way of a Local Area Network(LAN).

● Features

- Multiple current ranges for improved accuracy over a wide range of testing conditions.
- High resolution 16 bit DAC/ADC for system control and data acquisition.
- 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.
- 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 Electroanalytical Measurement

- Cyclic voltammetry
- Linear sweep voltammetry
- Chrono-amperometry
- Chrono-coulometry
- Chrono-potentiometry

● Corrosion Measurement

- Tafel plot
- Potentiodynamic
- Potentiostatic
- Galvanostatic
- Cyclic polarization
- Ecorr vs. time
- Linear polarization resistance

● For Energy Test

- Charge/Discharge(CC/CV) Test
- Constant Current Charge/Discharge(CC/CC) Test
- Steady state CV
- Pstat IV curve
- Gstat IV curve
- Electrochemical Voltage Spectroscopy(EVS) Test
- Galvanostatic Intermittent Titration Technique(GITT) Test
- Potentiostatic Intermittent Titration Technique(PITT) Test

● Specifications

Control voltage range	±10V
Compliance voltage	±12V
Control current range	1A, 8 ranges
LED	Run: 1ea, Mode: 2ea Irange: 8ea
Input impedance	10 ¹² Ohm
Cell connection	4 probe type, alligator clip cables
Voltage accuracy	±0.02%
Current accuracy	±0.02% at 10uA to 1A range ±0.1% at 1uA, 100nA range

Voltage Control/Measurement

Full scale ranges	±10V
Resolution(16 bits)	0.3mV

Current Control/Measurement

Full scale ranges	Max. 1A@10V
Resolution	16 bit(0.0015% f.s)
Communication	TCP/IP
Sampling time	1msec

All specifications are subject to change without notice.



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