POTENTIOSTAT/GALVANOSTAT



The N600-HA151B model is your low-cost and compact Potentiostat solution for fast and convenient field usage. This unit is capable of conducting experiments such as metal testing or metal corrosion monitoring. This device is an optimal combination of stability and portability. The over-current suppression circuit protects the system in case of accidental short-circuting of the counter or working stations. The external control input and potential/current recording output terminals are built-in for immediate data results of the polarization curve when in the field.

(a) Max. Output voltage	± 15V
(b) Max. Output current	+ 1A

± 1A, ± 100mA, ± 10mA, (c) Current Means Range

 ± 1 mA, ± 100 µA, ± 10 µA, ± 1 µA

0.5% (setting value) ± 3mV

± 10µA, 6-ranges

± 10V

30µV/°^C

(d) Max. Control potential

(e) Internal setting potential ± 2V

(f) Internal setting accuracy

(a) External control accuracy $< \pm 3 \text{mV}$ (h) Response time < 50usec $> 10^{10} \Omega$

(i) Reference input resistance $< 10^{-10} A$ (i) Reference bias current

(k) Temperature coefficient

(a) Max. Output current ± 1A (b) Max. Output voltage $\pm 15V$

 $\pm 1A, \pm 100mA, \pm 10mA, \pm 1mA, \pm$ (c) Current setting range

 $100\mu A, \pm 10\mu A, \pm 1\mu A,$

± 10µA, 6-ranges

(d) Setting accuracy <± .01%

(e) Response time < 50 µsec

(a) Input resistance $> 10^{10} \Omega$ (b) Bias current $< 10^{-10} A$ (c) Response time < 10usec (d) Conversion accuracy $< \pm 0.1\%$ (e) Potential range 10V, 2V

results in Excel or your existing software.

- Coulometry
- Polarization
- Current
- Voltammetry

POTENTIOSTAT/GALVANOSTAT

00-HABF-501A

Model N600-HABF-501A is a compact sized electrochemical measuring system that incorporates a potentiostat/galvanostat, a function generator, and a coulomb meter. This exceptional unit is suitable for use in a wide range of experiments, including laboratory study, organic electrolysis, precision synthesizing, bio-sensing, plating, and corrosion analysis.

As a Potentiostat/Galvanostat

Max Output voltage ± 50V 1A Max Ouput Current

Set Voltage

Range ±10V 1 m\/ Resolution

±0.03% of FS **Control Accuracy** Input impedance 10 GΩ Range of Detected Potential ±10V

Detected Potential Accuracy ±0.03% of FS

1A Detected Current Range Pulse Mode 100mA

Set Current Range $\pm 10mA, \pm 1mA, \pm 100\mu A,$

 $\pm 10\mu A, \pm 1\mu A,$

±0.2% of FS Detected current accuracy

As a Coulomb Meter

Measuring range 1 µC~99999.99C Maximum measuring speed 1000000 digit/s

General Specifications

Physical Dimension 430mm x 103mm x 365mm (WxHxD)

Weight 8.1 kg

AC120V±10%, 50/60Hz Power source

Power consumption 3A or less

DC500V 100M or more Insulation resistance Withstandina AC1500V 1 minute

Environment

Operational temperature 0°~40°C

Operational humidity 10% RH~90% RH (without dew)

Storage temperature -10°C± 40°C

5% RH~90% RH (without dew) Storage humidity

Accuracy guaranteeing temperature 23°C ± 5°C

- Measurement capability in 4 modes: electrometer mode, potentiostat mode, galvanostat mode and unresisted ammeter mode.
- Built-in function generator and coulomb meter.
- 2 current ranges (10 µA range, & 1 µA range are included).
- Improved coulomb integrate accuracy (10 digit/s → 1000000 digits/s)
- Possible control and data acquistion on N6000-HABF501A from computer using USB port (Maximum 10 samples/sec).
- Power source: AC 120 V, 50-60 Hz





