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COMPACT POTENTIOSTAT/GALVANOSTAT with Wave Generator Model N600-HAB151

APPLICATIONS

This low-cost, compact model is designed to provide a complete potentiostat/galvanostat/function generator instrument for demanding electrochemical applications. It is ideal for fundamental electrochemical studies in areas as diverse as physical electrochemistry, corrosion measurement, voltammetry, coulometry, automatic polarization and other studies. This unit consists of a potentiostat, a galvanostat, an electrometer, and a function generator. This unit provides a combination of blazing speed, a wide current range, low noise, high sensitivity, and unsurpassed versatility. This instrument combination represents the accumulation of Hokuto Denko's experience accumulated over the past 35 years.

PERFORMANCE

The potentiostat/galvanostat portion with a maximum output of $\pm 15V/\pm 1A$ and six current ranges (the lowest range: $\pm 10\mu A$) is adequate for most electrolysis tests and corrosion studies. Also included in this portion are an external control input, a current detecting filter, and warning lamps for "OUT-OF-CONTROL", "POTENTIAL-OVER", and "CURRENT-OVER". The function generator portion utilizes analog circuitry to yield smooth slopes. The function generator offers a wide scanning speed range ($0.1mV/sec \sim 5000V/min$) and a potential setting range of $-5.0V$ to $+5.0V$. The STOP, HOLD, and REVERSE buttons are also included. The function generator portion is connected to the rest of the unit via an F.G. SET ON/OFF switch.

COMPACT DESIGN

Despite these impressive specifications, the N600-HAB151 is surprisingly compact and lightweight. Hundreds of components in each model are built into an instrument that measures $435mm \times 100mm \times 360mm$ (WxHxD) and weighs 7.7 kilograms. Hokuto Denko engineers worked long and hard to build a compact instrument without sacrificing functionality or reliability. As a result, the Model N600-HAB151 is a world-class research potentiostat that occupies minimum bench space and is easily portable.



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SPECIFICATIONS

As a Potentiostat

(a) Maximum Output	$\pm 15V, \pm 1A$
(b) Current Measuring Range	$\pm 1A, \pm 100mA, \pm 10mA, \pm 1mA, \pm 100\mu A, \pm 10\mu A$ (6 ranges)
(c) Maximum Control Potential	$\pm 10V$
(d) Control Accuracy	$< \pm 3mV$
(e) Response Time	$< 50\mu sec$
(f) Reference Input Impedance	$> 10exp10\Omega$

As a Galvanostat

(a) Maximum Output	$\pm 1A, \pm 15V$
(b) Current Setting Range	$\pm 1A, \pm 100mA, \pm 10mA, \pm 1mA, \pm 100\mu A, \pm 10\mu A$ (6 ranges)
(c) Current Setting Accuracy	$< \pm 1\%$ of range full scale
(d) Response time	$< 50\mu sec$

As an Electrometer

(a) Input Resistance	$> 10exp10\Omega$
(b) Bias Current	$< 10exp-10A$
(c) Response Time	$< 10\mu sec$
(d) Conversion Accuracy	$< \pm 0.1\%$ of input potential
(e) Potential Display Range	$\pm 2V$ and $\pm 10V$ full scale (Digital Display)

Recording Output

(a) Potential Recording Output	Input/output conversion ratio is 1:1
(b) Current Recording Output	1V output for every range full scale

As a Function Generator

(a) Waveforms	Ramp One-shot triangle One-shot double triangle Repetitive triangle
(b) Setting Potentials	
Range	-5,000V ~ +5,000V
Setting	Initial, upper, and lower potentials can be set independently (INITIAL, HIGH, LOW)
Setting Accuracy	
(c) Scanning Speed	
Setting 1	X10exp-1, X1, X10, X10exp2, X10exp3, X10exp4
Setting 2	1, 2, 5
Setting Units	mV/sec, 100mV/min
mV/sec	0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000
mV/min	10exp4, 2X10exp4, 5X10exp4 10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10, 2X10, 5X10, 10exp4, 2X10exp4, 5X10exp4, 10exp5, 2X10exp5, 5X10exp5, 10exp6, 2X10exp6, 5X10exp6
Setting Accuracy	$< \pm 1\%$ (for X1 ~ X10); $< \pm 2\%$ (for X10exp-1)
(d) Switches	START/STOP HOLD (output potential drift $< \pm 0.001mV/sec$) REVERSE STOP LED; START LED; HOLD LED; UP LED; DOWN LED

PowerConsumption	120V, 20VA at stand-by mode; 100VA at maximum load
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Physical Dimension (WxHxD)	435mm X 100mm X 360mm/ 17.1" X 3.9" X 14.2"
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Weight	7.7 kg/ 17.0 lbs.
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