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COMPACT POTENTIOSTAT/GALVANOSTAT Model N600-HA151

APPLICATIONS

This low-cost, compact model is most suitable for student laboratory exercises and for field use when testing metal and for metal corrosion monitoring. Adoption of all-solid-state devices results in stability and portability. Over-current suppression circuit protects the system in case of accidental shorting of the counter and working electrodes. External control input and potential/current recording output terminals are built in for easy drawing of the polarization curve in the field.

COMPACT DESIGN

Despite these impressive specifications, the N600-HA151 is surprisingly compact and lightweight. Hundreds of components in each model are built into an instrument that measures 220mm x 100mm x 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-HA151 is a world-class research potentiostat that occupies minimum bench space and is easily portable.



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SPECIFICATIONS	
As a Potentiostat	
(a) Max. Output voltage	$\pm 15V$
(b) Max. Output current	$\pm 1A$
(c) Current means range	$\pm 1A, \pm 100mA, \pm 10mA, \pm 1mA, \pm 100\mu A, \pm 10\mu A$ $\pm 100\mu A, \pm 10\mu A, 6\text{-range}$
(d) Max. Control potential	$\pm 10V$
(e) Internal setting potential	$\pm 2V$
(f) Internal setting accuracy	$0.5\% (\text{setting value}) \pm 3mV$
(g) External control accuracy	$< \pm 3mV$
(h) Response time	$< 50\mu\text{sec}$
(i) Reference input resistance	$> 10\text{exp}10\Omega$
(j) Reference bias current	$< 10\text{exp}-10A$
(k) Temperature coefficient	$30\mu V/^{\circ}C$
As a Galvanostat	
(a) Max. Output current	$\pm 1A$
(b) Max. Output voltage	$\pm 15V$
(c) Current setting range	$\pm 1A, \pm 100mA, \pm 10mA, \pm 1mA, \pm 100\mu A, \pm 10\mu A$ $\pm 100\mu A, \pm 10\mu A, 6\text{-range}$
(d) Setting accuracy	$< 1\%$
(e) Response time	$< 50\mu\text{sec}$
As an Electrometer	
(a) Input resistance	$> 10\text{exp}10\Omega$
(b) Bias current	$< 10\text{exp}-10A$
(c) Response time	$< 10\mu\text{sec}$
(d) Conversion accuracy	$< \pm 0.1\%$
(e) Potential range	$10V, 2V$
Power Requirement	$AC120V \pm 10\%, 50\text{-}60\text{Hz}, 100VA$
Physical Dimension (WxHxD)	$220\text{mm} \times 100\text{mm} \times 360\text{ mm}$
Weight	7.7 kg