ELECTROCHEMICAL WORKSTATION

Affordable, high-precision for standard electrochemical techniques

OVERVIEW

PGS-10 includes a base potentiostat/galvanostat with a compliance voltage of 5 V and a maximum current of 1 A. The PGE-18 is the successor of the PGS-10 combined with EIS module and is specially designed for electrochemical impedance spectroscopy studies.

EIS technique is widely used as a practical tool to study the mechanism of various processes, such as electrodeposition, electro-dissolution, passivity and corrosion studies, biosensors, study of semi-conductor interfaces and diffusion of Specifications ions across membranes.

SPECIFICATIONS

Electrochemical Workstation Technical Specifications				
Model	PGE-18		EIS-27H	PGS-10
Electrode connections	2, 3 and 4		√	√
Potential range (Adjustable)	± 5 V / ± 1 V Fine voltage range: (FS)/2, FS/4, FS/8,(FS)/16, FS/32, FS/64		√	√
Potential resolution	0.025% of Scale		√	√
Voltage set resolution	0.025%		√	√
Maximum current	1 A		√	√
Current range	Course current range	100 nA-1A (8 Steps)	√	√
	Fine current range	Full scale (FS)/2, FS/4, FS/8	√	√
Current resolution	0.0005% (of current range) Min. current resolution: 50 pA		√	√
Frequency range	0.001 Hz-1 MHz		√	-
Impedance range	0.1 Ω-10 MΩ		√	-
Sample rate	1000 S s^{-1}		√	√
Input impedance	100 MOhm		√	√
Input voltage	100-240 V AC (50-60 Hz) or 24 V DC		√	√
Computer interface	USB		√	√
Control software	LMS-27		LMS-26	LMS-25
Software requirements	OS: Windows 10		√	√