

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)	$\pm 5 \text{ V} / \pm 1 \text{ V}$ 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 M Ω	√	-	
Sample rate	1000 S s ⁻¹	√	√	
Input impedance	100 M Ω	√	√	
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 7 or later	√	√	