ADVANCE SCIENCE

INNOVATION | PRECISION | PERFORMANCE

CE

ELECTROCHEMICAL WORKSTATION

MODEL NO. AS-ECW-1001



Advance Science Electrochemical Workstation is a high performance, multi-functional instrument designed for a wide range of electrochemical measurements and analysis. It provides high accuracy, low noise and excellent stability for research and development in energy storage, corrosion, material science, sensors and electrochemical studies.

HIGH ACCURACY | WIDE CURRENT RANGE | FAST RESPONSE | STABLE & RELIABLE | RESEARCH & DEVELOPMENT

TECHNICAL SPECIFICATIONS

Parameter	Specification
No. of channel	1
Interface	USB
Measured current / Potential resolution	0.0015% of current range
Applied potential resolution	150 µV or better
IMP Amplitude range	0.001 V to 0.7 V VRMS
Electrode Configuration, Terminals	5
Potentiostat rise time	400 ns or better
Reference electrode input impedance	> 100 GOhm // 8 pF
Current range	± 10 nA to ± 1 A
Compliance voltage	± 28 V or better
Scan Rate	1 µV/s to 1000 V/s
Potentiostat bandwidth	1 MHz or better
Reference electrode input bias current	≤ 1 pA or better
Applied current resolution	0.03% of current range
Maximum current	± 1 A
Bandwidth of electrometer	< 4 MHz
IMP frequency range	10 µHz to 1 MHz
Maximum potential	± 10 V or better

KEY FEATURES

- Wide current range (± 10 nA to ± 1 A)
- High compliance voltage (± 28 V or better)
- Fast response (400 ns or better)
- High resolution (Current: 0.0015% | Potential: 150 µV or better)
- Wide IMP frequency range (10 µHz to 1 MHz)
- 5 electrode configuration
- USB interface for easy connectivity
- High stability and low noise performance
- Compact and easy to operate
- Ideal for research and development applications

APPLICATIONS

- Corrosion Studies
- Energy Storage Materials
- Sensor Development
- Material Science Research
- Electrochemical Research
- Academic & Industrial Research

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