

Multi electrochemical measurement system SDPS-514/518

Specifications

【Overview】

Potentiostat (constant potential), galvanostat (constant current), electrometer (potential measurement), ZRA (non-resistive current measurement), or potentiodynamic polarization (linear, cyclic) measurement can be performed simultaneously on up to 4/8 channels.

【Structure/Appearance】



【Specifications】

Function	Potentiostat, Galvanostat, Electrometer
Operation Modes	E.Meter (Electrometer) ... Measures the natural potential. Sweep (potentiodynamic polarization) ... Performs a linear sweep or CV measurement. P.Stat (potentiostat) ... Holds a constant potential. G.Stat (galvanostat) ... Holds constant current. ZRA (zero resistance current measurement): measures the galvanic corrosion current.
Input Channel	SDPS-514...4ch SDPS-518...8ch (Each Channel Independent)
Maximum Output	$\pm 5V$ ($\pm 2.5V$ Switching), $\pm 200mA$ (Optional $\pm 1A$ for 1ch only)
Current Detection Range	200mA, 20mA, 2mA, $200\mu A$, $20\mu A$, $2\mu A$, 200nA Total 7 Ranges
Current Range Conversion	Auto
Potential Detection Method	Differential Method
Electrometer Input Resistance	$10^{11}\Omega$
Frequency Characteristics	DC~1KHz -3dB
Control Voltage	$\pm 10V$
Noise Filter	Analog and Digital
Connecting Method	WE Ground, CE Ground
Size	430mm (W) \times 330mm (D) \times 132mm (H)
Weight	SDPS-514...3.4 kg SDPS-518...4.8 kg

【Control Software Specifications】

Function	CV, LSV, constant potential electrolysis hold, constant current electrolysis hold, potential measurement
Polarization curve termination condition	Potential absolute value, polarization width, current value (anode), current value (cathode)
Maximum Number of Sample	Depending on the storage of hard disk(with 10 seconds interval, app.6MB per month)
Data Display Method	Time change graph, digital display
Connection Method Setting	Switching function between WE ground and CE ground.
Independence Between Channels	Fully independent operation possible
Data Format	CSV Format

【Equipment Set Sample】

SDPS-514/518(Main body)

AC Adaptor



○Accessories

Measuring Cable

○Separated Purchase Required

Output BNC Cable, AC Adaptor

※It is recommended to purchase the specified products for compatibility with the equipment