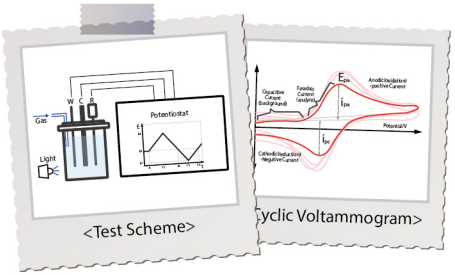
Q1100

Cyclic Voltammetry Test System

Test Systems On Demands
www.mcscience.com

The Cyclic Voltammetry is a basic experiment for the characterization of electrochemical systems. The long-cycle repeated measurement of Cyclic Voltammetry is widely used for quick evaluation of electrochemical materials for the application of devices such as rechargeable batteries, electrochemical double-layer capacitors and photo-electrochemical systems. Q1100 provides multi-channel management capability for efficient measurements of multiple sample devices.

Cyclic Voltammetry + **Multi-Channel**



Multi-Channel Cylic Voltammetry
High-Speed Data Acquisition
Sequence Builder
Individual Channel Management
Gas Control & Light Source Options

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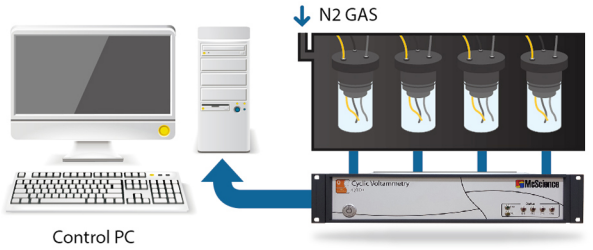
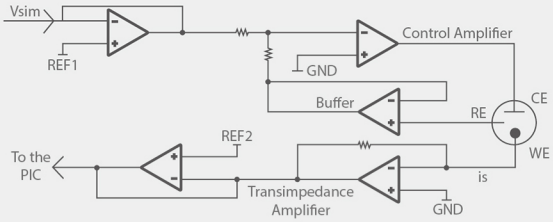
System Configuration





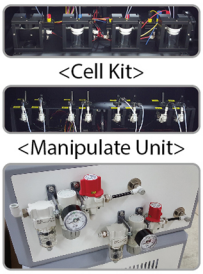
<Measurement Cirtuitury>

System Components

<System Frame>

<Dark Box>

<Measurement Unit>



<Cell Kit>

<Manipulate Unit>

<Optional Gas Controller>

<Measurement S/W>

System Specification

Channel #	4CH (Independent Configuration)	
Test Board #	1 ea	
Mode	Voltage Control, Current Measurement	
Output Connection	2Probe, 3Probe, 4Probe	
Voltage Control	Range	-10V ~ +10V
	Capability	10mA
	Resolution	16bit DAC
	Accuracy	< 0.1% of full scale
	Stability	<0.1%/h after 30 min. warming up
	Scan Rate	10mV/sec ~ 100V/sec
	Frequency	0.001 ~ 100Hz
	Setting Parameter	Voltage Sweep Range, Volatge Step, Scan Rate, Cycle
Current Measurement	Configuration	Zero Resistance Ammeter
	Range	4 Decades (10μA, 100μA, 1mA, 10mA)
	Resolution	16bit ADC
	Accuracy	< 0.01% of full scale
	Stability	<0.1%/h after 30 min. warming up
	Sampling Rate	40ksps
	Measurement Parameter	Cycle, Time, Voltage, Current, Epc / Ipc / Epa / Ipa

Time	1sec ~ 65,000 hrs
Measured Data	Voltage, Current, Time
Operating Temperature	20°C ~ 30°C
PC Interface	Serial / LAN
Dimension	450mm(W) x 300mm(D) x 150mm(H)
Weight	< 10 Kg
Line Voltage	220V 1Ø 50 ~ 60Hz, <3A

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