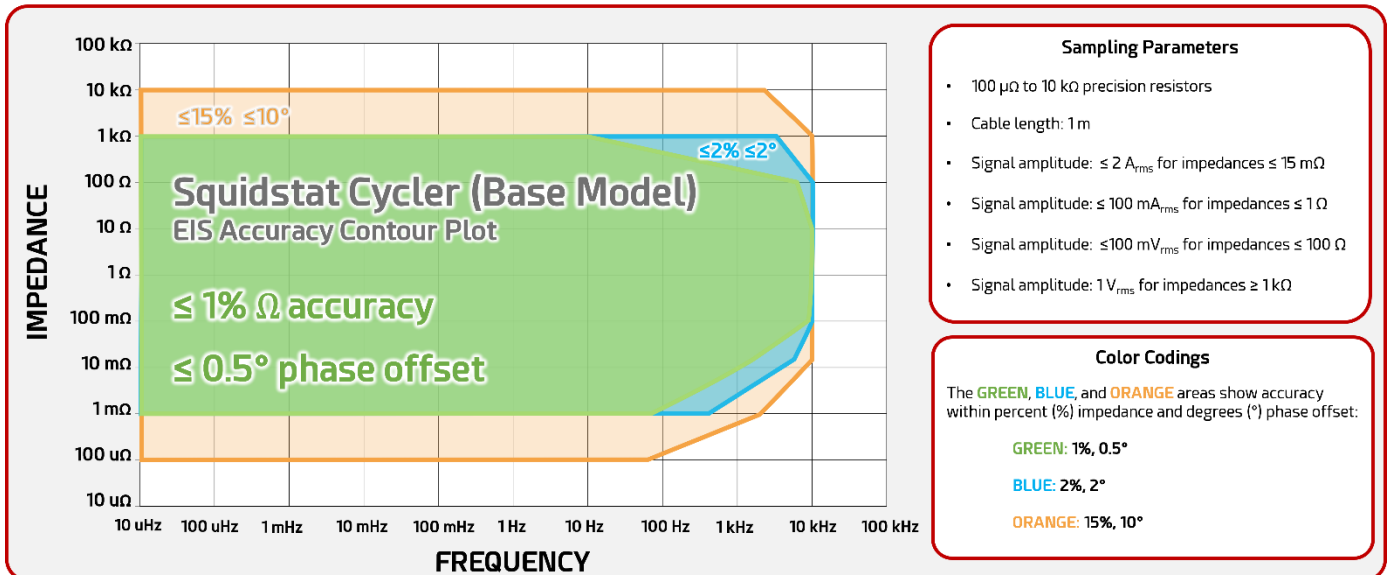


SQUIDSTAT BASE MODEL CYCLER

Part Number	Description	Price USD
CY-19-K10-BM	<p>Squidstat Cyclers – Base Model</p> <ul style="list-style-type: none"> • Four-channel battery cycler with FRA, ± 5 A current and 0-5 V voltage range, and EIS (10 μHz-10 kHz). • Comes with four Squidstat Low Current Channel Cable – Cyclers (#CB-CY-LC-1), a Power Source Cable (Country based), and a USB cable (#UB12-06-BLK). • Compatible with Windows, MacOS, and Ubuntu via the Squidstat User Interface software and Application Programming Interface. • Supports multichannel use. • Made in USA. 	\$9,500.00



DETAILED HARDWARE SPECIFICATIONS ON NEXT PAGE

Squidstat Base Model Cycler - 4Ch5V5A

General Specifications

Channels Per Unit	4
Operating Modes	Pot / Gal / FRA
Cell Connections	4-terminal, power + remote sense
ADC/DAC Resolution	24-bit resolution
Slew Rate (No Load)	250 V/s DC, 30 kV/s max AC
Shortest DC data recording interval	400 μ s
Shortest data hardware sampling interval	16 μ s
Floating/Ground Mode	Ground only
Input Impedance	1.76 Mohm
Input Current	2.84 μ A
Data Backup Memory	No data backup
Temperature Measurement	-55°C to 80°C Thermistor per channel (\pm 1.25°C accuracy)
Dimension and Weight	23 L x 17 W x 6 H cm, 1 kg
Channel Cable Length	1 m
Computer Interface	USB
Temperature Operating Range	0 to 40 °C
Min/Max Scan Rate	320 nV/s 150 V/s with 30 mV sampling
Smallest Pulse Width / Fastest Waveform Update	1 ms
Smallest Potential Step for Sweep Voltammetry	0.000006% (0.06 ppm) of setpoint/measured, 320 nV min
Square Wave Voltammetry Max Frequency	500 Hz
Power Supply Requirements	180 -264 VAC 47-63 Hz

Potentiostatic Input/Output

Compliance Voltage	0 - 10 V
Voltage Scan Range	0 - 5 V
Number of Voltage Ranges	1 range [0 - 10 V]
Applied Voltage Accuracy	\pm 500 μ V of setpoint
Applied Voltage Resolution	0.000006% (0.06 ppm) of range, 320 nV min
Measured Voltage Accuracy	\pm 500 μ V Initial, \pm 0.015% of measurement per year
Measured Voltage Resolution	0.000006% (0.06 ppm) of range, 320 nV min
Time Resolution	< 100 μ s
Rise Time	20 ms Typical (10-90%, 0.5-4.5 V)

Galvanostatic Input/Output

Current Range	\pm 5.0 A per channel
Number of Current Ranges	2 ranges, [5 A, 500 mA]
Applied Current Accuracy	0.1% of range \pm 1.50 mA/250 μ A
Applied Current Resolution	0.000012% (0.12 ppm) of range, 600 nA/60 nA
Measured Current Accuracy	0.1% of range \pm 1.50 mA/250 μ A
Measured Current Resolution	0.000012% (0.12 ppm) of range, 600 nA/60 nA
Current Precision Settling Time (Step Change)	< 10 ms to 0.15% typical, load dependent

Impedance Analyzer

EIS Frequency Range	10 μ Hz to 10 kHz
AC Frequency Accuracy	0.005% (50 ppm) or better
EIS Amplitude Resolution	24-bit resolution
Potentiostatic EIS Amplitude Resolution	0.000006% (0.06 ppm) of setpoint/measured, 320 nV min
Galvanostatic EIS Amplitude Resolution	0.000012% (0.12 ppm) of range, 600 nA/60 nA
EIS Impedance Range	Min 500 μ Ohm (\geq 800 mA AC) Max 10.0 kOhm (\geq 1 V AC)

Power

Max Source Power with Single Channel in Use	25.0 W Per Channel
Max Sink Power with Single Channel in Use	25.0 W Per Channel

Max Source Power when All Channels in Use (with All Channels Running at Equal Max Power)	25.0 W Per Channel
	100.0 W Per Device
Max Sink Power with All Channels in Use (with All Channels Running at Equal Max Power)	25.0 W Per Channel
	100.0 W Per Device
Idle Power Consumption	4 W