

Greetings! We are excited to have you begin using our Squidstats. Your patronage supports our mission to **make the next generation of electrochemistry instruments truly accessible worldwide.**

We recommend posting the back page of this guide nearby your Squidstat as a quick reference guide to easily review the key measurement specifications of the instrument.

Admiral Instruments is fully devoted to supporting your research and testing efforts. Your feedback and ideas about improving our products is important. Please email support@admiralinstruments.com with questions and comments. Surely you are eager to start your electrochemical measurements. Follow these steps to begin!

Step 1: Hardware Setup

Power Source Cable
Connect to Outlet

Power Supply



Note: The Squidstat Solo and Boosted Squidstat series do not use an external power supply. They utilize a power cord connected directly from the device to a power source.

Power Supply Cable

USB Cable
Connect to Computer




Squidstat™
 Device

Channel Cable
 Color Codes

Channel Cable(s)*
Connect to Experiments

*The Squidstat Prime, Squidstat Cypher, and Boosted Squidstat models have channel cable connections with multiple cables different from this diagram.

Step 2: Software Installation

- Ai** Visit www.admiralinstruments.com/software & scroll to the Downloads section to select the icon for your computer (PC / Mac / Linux).
- Ai** Download the Installation Package .zip file (includes operating manual) and unzip/extract it.
- Ai** Run the installer program and follow the instructions displayed on the screen.
- Ai** After installation finishes, launch the software (a desktop icon should automatically appear).
- Ai** Power on the Squidstat(s) and look for a connection notification on this bell at the top right corner of the program. 
- Ai** You are now ready to **Test the potential™**

Note: When connecting Squidstats for the first time, it may take several minutes for your computer to auto-install USB drivers.



FOUNDATION SERIES	Squidstat Plus	Squidstat Ace	Squidstat Prime	Squidstat Solo
Price Per Unit (\$USD)	\$4,900	\$3,500	\$4,800 (\$1,200/channel)	\$1,900
Channels Per Unit	1	1	4	1
Multichannel Expansion	Up to 100 units/computer	Up to 100 units/computer	Up to 100 units/computer	Up to 100 units/computer
Dimensions and Weight	24 cm x 17 cm x 6 cm, 1 kg	24 cm x 17 cm x 6 cm, 1 kg	24 cm x 17 cm x 6 cm, 1 kg	24 cm x 17 cm x 6 cm, 1 kg
Floating/Ground Mode	Both (switchable)	Both (switchable)	Both (switchable)	Both (switchable)
Maximum Current Range	±1 A	±1 A	±250 mA per channel	±100 mA
Number of Current Ranges	8 ranges (100 nA to 1 A)	8 ranges (100 nA to 1 A)	8 ranges (25 nA to 250 mA)	8 ranges (10 nA to 100 mA)
Measured Current Accuracy	0.1% of range, 100 pA min	0.1% of range, 100 pA min	0.1% of range, 100 pA min	0.1% of range, 100 pA min
Current Resolution	0.003% of range, 3 pA min	0.003% of range, 3 pA min	0.003% of range, 760 fA min	0.003% of range, 300 fA min
Maximum Voltage Scan Range	±10 V	±10 V	±10 V	±10 V
Number of Voltage Ranges	4 ranges (0.5 V, 1 V, 5 V, 10 V)	4 ranges (0.5 V, 1 V, 5 V, 10 V)	1 range (±10 V)	1 range (±10 V)
Measured Voltage Accuracy	0.1% of reading, 1 mV min	0.1% of reading, 1 mV min	0.1% of reading, 2 mV min	0.1% of reading, 2 mV min
Voltage Resolution	0.003% of range, 15 µV min	0.003% of range, 15 µV min	300 µV	300 µV
EIS Frequency Range	10 µHz to 1 MHz	No EIS, only DC measurements	No EIS, only DC measurements	No EIS, only DC measurements
Potentiostatic EIS Amplitude	≤100% of range, 10 V max			
Galvanostatic EIS Amplitude	≤100% of range, 1 A max			

BOOSTED SERIES	Squidstat Penta	Squidstat Decka	Squidstat Venta
Price Per Unit (\$USD)	\$8,900	\$13,900	\$16,900
Channels Per Unit	1	1	1
Multichannel Expansion	Up to 100 units/computer	Up to 100 units/computer	Up to 100 units/computer
Dimensions and Weight	23 cm x 17 cm x 13 cm, 3.5 kg	23 cm x 17 cm x 13 cm, 3.5 kg	23 cm x 17 cm x 13 cm, 3.5 kg
Floating/Ground Mode	Both (switchable)	Both (switchable)	Both (switchable)
Maximum Current Range	±5 A	±10 A	±20 A
Number of Current Ranges	9 ranges (100 nA to 5 A)	10 ranges (100 nA to 10 A)	10 ranges (100 nA to 20 A)
Measured Current Accuracy	0.1% of range, 100 pA min	0.1% of range, 100 pA min	0.1% of range, 100 pA min
Current Resolution	0.003% of range, 3 pA min	0.003% of range, 3 pA min	0.003% of range, 3 pA min
Maximum Voltage Scan Range	±10 V	±10 V	±6 V
Number of Voltage Ranges	4 ranges (0.5 V, 1 V, 5 V, 10 V)	4 ranges (0.5 V, 1 V, 5 V, 10 V)	3 ranges (0.12 V, 1.2 V, 6 V)
Measured Voltage Accuracy	0.1% of reading, 1 mV min	0.1% of reading, 1 mV min	0.1% of reading, 1 mV min
Voltage Resolution	0.003% of range, 15 µV min	0.003% of range, 15 µV min	0.003% of range, 3.6 µV min
EIS Frequency Range	10 µHz to 1 MHz	10 µHz to 1 MHz	10 µHz to 1 MHz
Potentiostatic EIS Amplitude	≤100% of range, 10 V max	≤100% of range, 10 V max	≤100% of range, 6 V max
Galvanostatic EIS Amplitude	≤100% of range, 5 A max	≤100% of range, 10 A max	≤100% of range, 20 A max

5-Electrode Cell Connections

16 GB Onboard Backup Memory

Windows / Mac / Linux Compatible Software

API For Process Automation

FREE 30-Day Trial Program

2-year Warranty