

Innovative Electrochemical Instrumentation **for Research & Industry**



IviumStat & CompactStat

24
BIT
resolution

Premium potentio/galvanostat
for unbeatable performance

- 

High-end instrument
- 

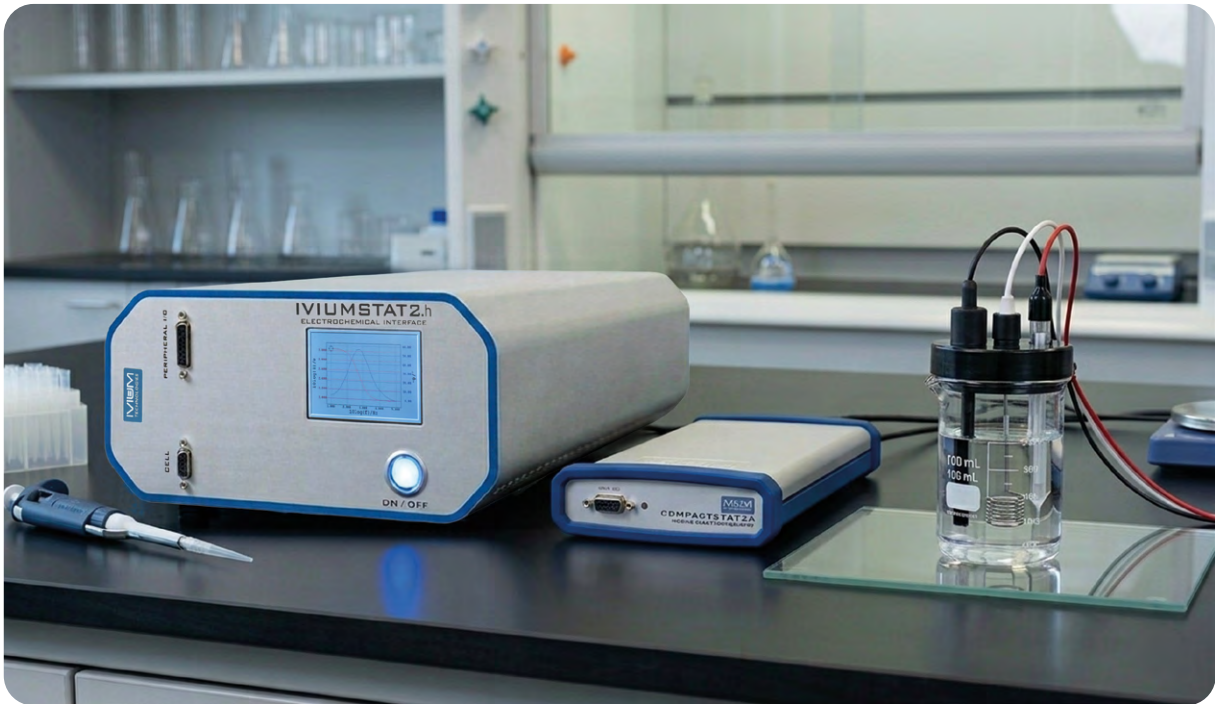
Suitable for all applications
- 

Floating mode selectable
- 

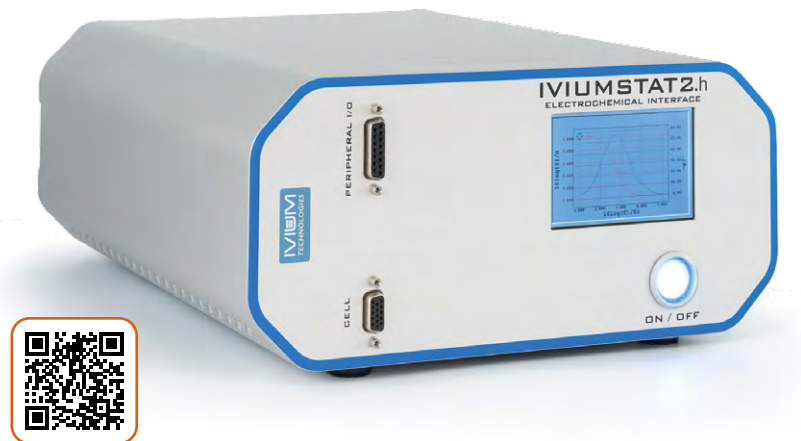
Data acquisition rate
2,000,000 points/s
- 

Ultra low Current Range
- 

Full I/O Interface port



IviumStat2.h



Full specs

- 

EIS integrated
10 μ Hz to 8MHz
- 

Complete solution
- 

Full color display
Real-time data

CompactStat2.h



Full specs

- 

Portable
USB powered
- 

EIS integrated
10 μ Hz to 3MHz
- 

Optional integrated
power boosters

MODEL	IviumStat		CompactStat		
	2.h	2X	2.h	2.h10800	2.h20250
Current compliance	$\pm 5A$	$\pm 5A/\pm 2A$	$\pm 30mA$	$\pm 800mA$	$\pm 250mA$
Maximum output voltage	$\pm 10V$	$\pm 10V$ at 5A $\pm 50V$ at 2A	$\pm 10V$	$\pm 10V$	$\pm 20V$
Applied voltage	$\pm 10V$	$\pm 10V / \pm 50V$	$\pm 10V$	$\pm 10V$	$\pm 10V$ o $\pm 20V$
Current resolution	24 bit, min. 0.5zA		24 bit, min. 0.5zA		
Data Acquisition rate	2,000,000 points/s		2,000,000 points/s		
EIS	10 μ Hz to 8MHz		10 μ Hz to 3MHz		
Floating operation	✓	✓	✓	✓	✓
IR compensation	✓	✓	✓	✓	✓

POPULAR MODULES

Bipotentiostat	o	o	o	o	o
Multiplexers	o	o	o	o	o
Power boosters	o	o	o	✓	✓
Temperature	o	o	o	o	o
Digital/Analog I/O	✓	✓	✓	✓	✓
Extra V/EIS*	o	o	o	o	o

✓ Included o Optional
*Simultaneous V or EIS on counter electrode, half cells, cells within stack etc

Vertex

All round potentio/ galvanostat



Wide range of power configurations



Optional EIS up to 1 MHz



Vertex.One
Full specs



Various modules and boosters available



Data acquisition rate
300,000 points/s



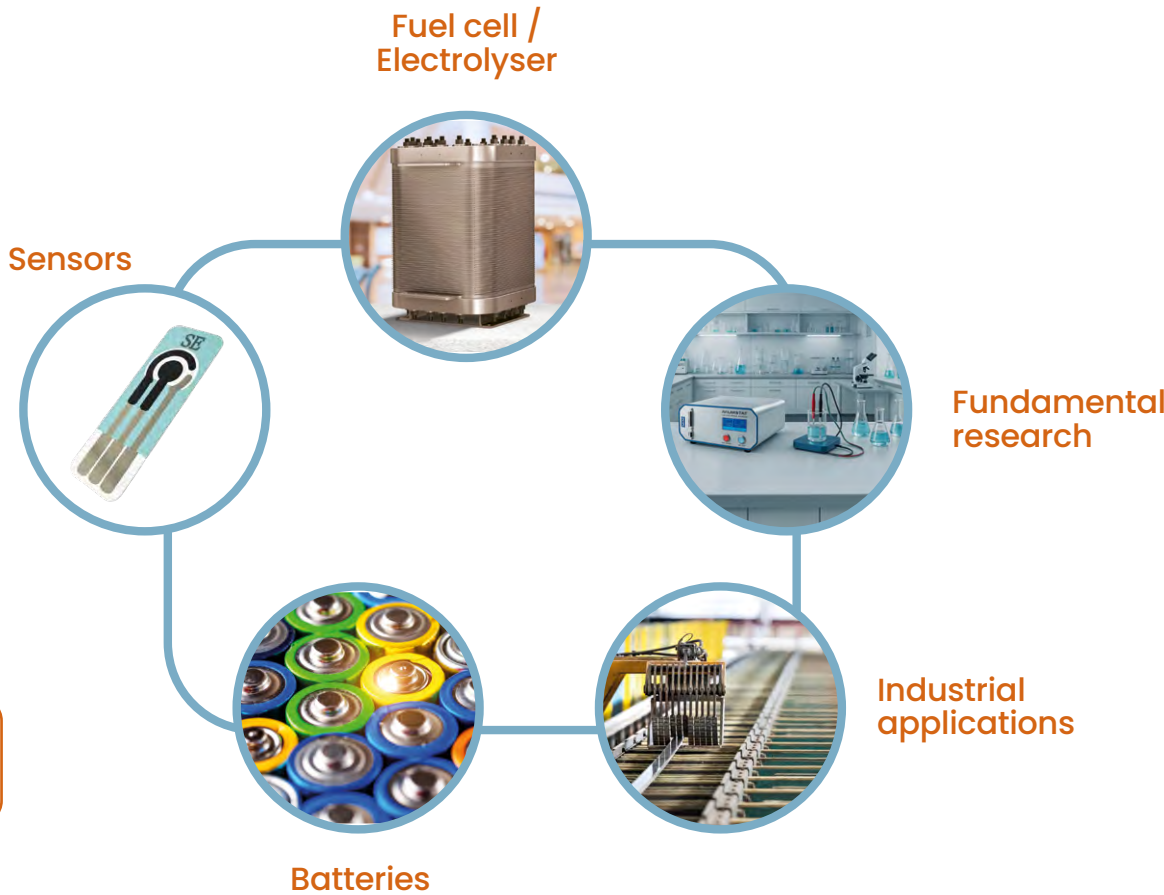
Vertex.C
Full specs



18 bit resolution



Floating mode selectable



MODEL	Vertex	
	One	C
Current compliance	±100mA	±350mA
Maximum output voltage	±21V	±13V
Applied voltage	±10V o ±20V	±10V o ±13V
Current resolution	18 bit min. 3fA	
Data Acquisition rate	300,000 points/s	
EIS	10µHz to 250kHz o	10µHz to 1MHz ✓
Floating operation	✓	✓
IR compensation	✓	✓

POPULAR MODULES

Bipotentiostat		o
Multiplexers	o	o
Power boosters		o
Temperature	o	o
Digital/Analog I/O	✓ Limited	✓ Limited
Extra E/EIS*	o	o

Vertex	100mA	1A
	100mA	1A
Current compliance	±100mA	±1A
Maximum output voltage	±10V	
Applied voltage	±10V	
Current resolution	18 bit min. 3fA	
Data Acquisition rate	300,000 points/s	
EIS	10µHz to 1MHz o	
Floating operation	✓	✓
IR compensation	✓	✓

	o	o
	o	o
		o
	o	o
	✓	✓
	o	o

✓ Included o Optional
*Simultaneous V or EIS on counter electrode, half cells, cells within stack etc

HIGH CURRENT			HIGH VOLTAGE			
Vertex			Vertex			
5A	10A	20A	30V1A	30V	50V1A	100V
±5A	±10A	±20A	±1A	±2A	±1A	±0.6A
±10V	±5V	±2V	±30V	±30V	±50V	-10V to +100V
±10V	±5V	±2V ±15A at ±2.3V	±10V o ±30V	±10V o ±30V	±10V o ±50V	-10V to +100V
18 bit min. 3fA		18 bit min. 3µA	18 bit min. 3fA			
300,000 points/s			300,000 points/s			
10µHz to 1MHz o			10µHz to 1MHz o			10µHz to 250 kHz o
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓

o	o		o	o	o	
o		o	o	o	o	o
o	o		o	o	o	
o	o	o	o	o	o	o
✓	✓	o	✓	✓	✓	✓
o	o		o	o	o	o

✓ Included o Optional
*Simultaneous V or EIS on counter electrode, half cells, cells within stack etc

pocketSTAT

Handheld
potentio/galvanostat



Portable
USB powered



Optional battery-
Bluetooth interface



Lab and
field use



Sensors



Corrosion



Fundamental



Low-cost
entry level



10μHz –1MHz
EIS integrated



Ultra low
Current

MODEL	pocketSTAT.DC	pocketSTAT2	pocketSTAT2.LC
Current compliance	±30mA		
Maximum output voltage	±10V		
Applied voltage	±10V		
Current resolution	24 bit, min. 0.5fA	18 bit, min. 3fA	18 bit, min. 0.3fA
Current ranges	±10nA to ±10mA	±100pA to ±10mA	±10pA to ±10mA
Data Acquisition rate	1,000 points/s	300,000 points/s	
EIS		10μHz to 1MHz	
IR compensation		✓	✓

POPULAR MODULES

Bipotentiostat			
Multiplexers		o	
Power boosters			
Temperature		o	
Digital/Analog I/O	✓ Limited	✓ Limited	
Extra V/EIS*		o	

✓ Included o Optional

*Simultaneous V or EIS on counter electrode, half cells, cells within stack etc.



pocketSTAT.DC
Full specs



pocketSTAT2
Full specs



pocketSTAT2.LC
Full specs

XP

High power
potentio/galvanostat



High power
instrument



10μHz –500kHz
EIS optional



Integrated
current interrupt



Thermocouple
connection



Data acquisition rate
300,000 points/s



Full I/O
Interface port



Fuel cell /
Electrolyser



Batteries



Industry



Full specs

MODEL	XP5	XP10	XP20	XP40
Current compliance	±5A	±10A	±20A	±40A
Maximum output voltage	±100V	±40V	±20V	±10V
Applied voltage	±100V	±10V o ±40V	±10V o ±20V	±10V
Current resolution	18 bit, min. 3fA			
Data Acquisition rate	300,000 points/s			
EIS	o 10μHz to 500kHz			
IR compensation	✓	✓	✓	✓

POPULAR MODULES

Current interrupt	✓	✓	✓	✓
Bipotentiostat		o	o	o
Multiplexers	o	o	o	o
Power boosters				
Temperature	✓	✓	✓	✓
Digital/Analog I/O	✓	✓	✓	✓
Extra V/EIS*	o	o	o	o

✓ Included o Optional

*Simultaneous V or EIS on counter electrode, half cells, cells within stack etc

Ivium-n-Stat

Configurable multi-channel potentio/galvanostat

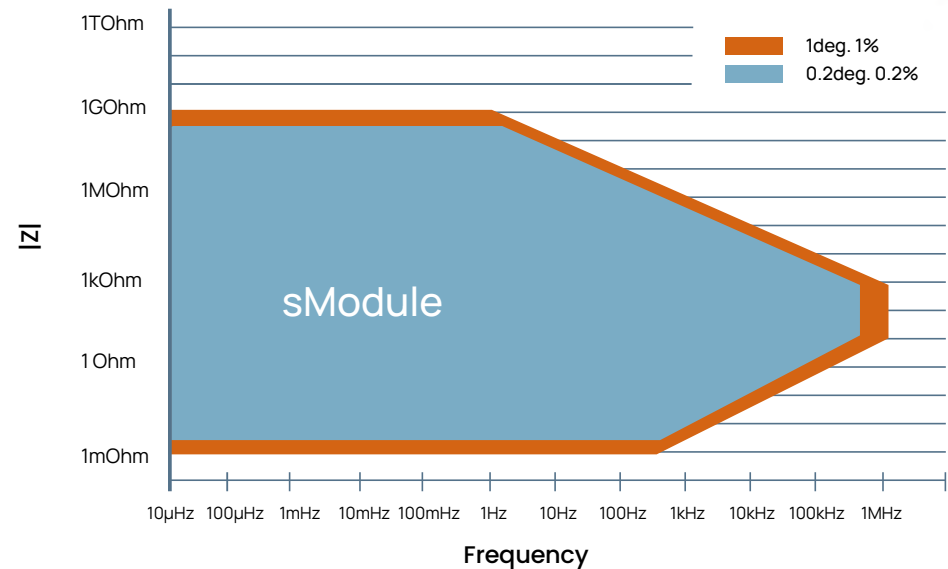


- 1-16 parallel measurements
- EIS capable (250 kHz/1MHz)
- Floating mode selectable
- 18 bit resolution
- Mix and match custom configuration
- Data acquisition rate 300,000 points/s



Full specs

Expand as you go:
8 module positions = up to 16 channels



SINGLE channel modules

HIGH CURRENT → HIGH VOLTAGE →

MODEL	sModule						
	2.5A/10V	5A/10V	10A/5V	20A/2V	2A/30V	1A/50V	100V
Current compliance	±2.5A	±5A	±10A	±20A	±2A	±1A	±0.6A
Maximum output voltage	±10V	±10V	±5V	±2V	±30V	±50V	-10V to +100V
Applied voltage	±10V	±10V	±5V	±2V ±15A at ±2.3 V	±10V o ±30V	±10V o ±50V	-10V to +100V
Current resolution	18 bit min. 3fA	18 bit min. 3fA		18 bit min. 3µA	18 bit min. 3fA		
Data Acquisition rate	300,000 points/s	300,000 points/s			300,000 points/s		
EIS	✓ 250kHz o 1MHz	✓ 10µHz to 250kHz o 10µHz to 1MHz			✓ 10µHz to 250kHz o 10µHz to 1MHz		✓ 10µHz to 250 kHz
Floating operation	✓	✓	✓	✓	✓	✓	✓
IR compensation	✓	✓	✓	✓	✓	✓	✓

POPULAR MODULES

Bipotentiostat	o	o	o		o	o	
Multiplexers	o	o	o	o	o	o	o
Power boosters	o	o	o		o	o	
Temperature	o	o	o	o	o	o	o
Digital/Analog I/O	✓	✓	✓	o	✓	✓	✓
Extra E/EIS*	o	o	o		o	o	o

✓ Included o Optional
*Simultaneous V or EIS on counter electrode, half cells, cells within stack etc

DUAL channel modules

MODEL	dModule	
	1A/20V	2.5A/10V
Current compliance	±1A	±2.5A
Maximum output voltage	±20V	±10V
Applied voltage	±10V o ±20V	±10V
Current resolution	18 bit min. 3fA	
Data Acquisition rate	300,000 points/s	
EIS	✓ 10µHz to 250kHz o 10µHz to 1MHz	
Floating operation	✓	✓
IR compensation	✓	✓

POPULAR MODULES

Bipotentiostat		
Multiplexers	o	o
Power boosters	o	o
Temperature	o	o
Digital/Analog I/O	✓ Limited	✓ Limited
Extra E/EIS*	o	o

✓ Included o Optional
*Simultaneous V or EIS on counter electrode, half cells, cells within stack etc

HE80



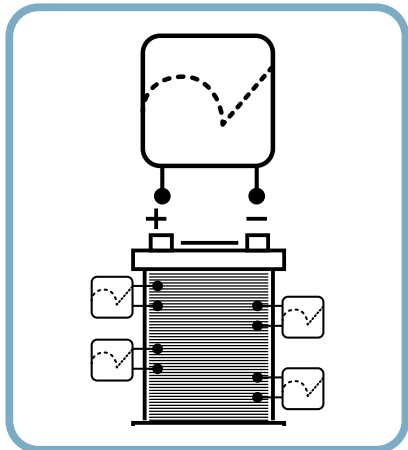
Potential/galvanostat optimized for energy conversion applications

High power instrument

Full I/O

Rack mountable

EIS integrated 10μHz -10kHz



8 additional simultaneous EIS measurements on cell and/or stack



Full specs

MODEL	HE80	
	1 quadrant	4 quadrant
Current compliance	+80A	±80A
Maximum output voltage	+20V	±20V
Applied voltage	+0.5 to 20V	±20V
Current resolution	18 bit min. 0.3mA	
Data Acquisition rate	300,000 points/s	
EIS	✓ 10μHz to 10kHz	
Floating operation		
IR compensation	✓	✓
POPULAR MODULES		
Temperature	o	o
Digital/Analog I/O	✓	✓
Extra E/EIS*	o	o

✓ Included o Optional
*Simultaneous V or EIS on counter electrode, half cells, cells within stack etc

Instrument Options & Modules

Data protection, multiplexers, power boosters, LED modulation, Faraday cage, RRDE, etc

DataSecure for independent measurement and data storage

Peripheral I/O functionality modules

Power boosters

Solar cell/light modules

Multiplexers and electrode array testers

Functionality upgrades Bipotentiostat, Linear Scan/ analog sweep

RRDE rotator

Accessories: Electrodes, cells, RRDE tips, etc.

See more

Software Techniques & Analysis

Time domain
Potentiostatic/galvanostatic techniques: LSV, CV, ACV, CA, CP, OCP, Mixed mode, Pulse/Wave, Tafel plot, ECN, ZRA, CC

Frequency domain
PEIS, GEIS, DC-potential sweep, DC-current sweep, Equivalent circuit fitting, DRT, Kramers-Kronig

Control
Batch/multi technique programming, Batch/multi data fitting, DLL control, Sqlite access

Multi-channel
Up to 128 channels, Trigger channels/peripheral equipment, Multiplex channels, Synchronized start, Parallel measurements

Battery/Supercap testing
Constant voltage/current (dis)charging, CCCV, EIS, Capacity, Cycle life, Degradation, Testing protocol, Real time analysis

Download software

Worldwide representation



Sales
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Contact our dedicated team and partners

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