

## PLUS MODULE:

### CompactStatPlus Hardware specifications



#### System Performance:

Current compliance  
Maximum output Voltage  
Potentiostat Bandwidth  
Stability settings  
Programmable response filter  
Signal acquisition

#### Plus

±250 mA  
±20 V  
>1 MHz  
High Speed, Standard, and High Stability  
1 MHz , 100 kHz , 10 kHz , 1 kHz , 10 Hz  
dual channel 16 bit ADC, 100.000 samples/sec

#### Plus II

±800 mA at ±8 V; ±500 mA at ± 10 V  
±10 V

#### Potentiostat:

Applied potential range  
Applied potential accuracy  
Current ranges  
High sensitivity current ranges  
Measured current resolution

±20 V (0.66 mV resolution) 0.2%, or 2 mV  
±10 V (0.333 mV resolution)  
±10 nA to ±100 mA  
±1 pA, ±10 pA, ±100 pA, ±1 nA  
0.015% of current range, minimum 0.15fA

#### Galvanostat

Applied current resolution  
Applied current accuracy  
Potential ranges  
Measured potential resolution

0.033% of applied current range  
0.2%  
±2 mV, ±20 mV, ±200 mV, ±1 mV, ±10 mV, ±100 mV,  
±2 V, ± 20V ±1 V, ± 10V  
0.003% of potential range, minimum 16nV

#### Impedance Analyser

Frequency range  
Amplitude  
DC offset  
Dynamic range

10µHz to 2MHz  
0.015mV to 1.0V, or 0.03% to 100% of current range  
16 bit dc offset subtraction, and 2 dc-decoupling filters  
12 nV to 20 V, 12 nV to 10 V,  
and 0.05 fA to 250 mA and 0.05 fA to 500 mA

#### Electrometer

Input impedance  
Input bias current  
Bandwidth

>1000 Gohm // <8pF  
<10 pA  
>16 MHz

#### Special functions

Ohmic drop compensation  
Safety features

2 V/current range, 16 bits resolution  
automatic disconnect on internal/external exceptions

#### Peripheral connections

8 Analog in, and 2 analog out  
2 Digital inputs, and 3 Digital outputs  
I-out, and E-out  
AC-out  
Channel-X, and Channel-Y inputs

0 to +4 V, 16 bits resolution  
0 to +5 V  
analog monitor for cell current and potential  
±0.5 V sinewave 10µHz-2MHz with variable attenuation  
±4 V: to record impedance from peripheral devices

#### Environment

power requirements USB powered mode  
external adapter  
at DC-connector

Not available  
100-240 V, 45-65 Hz, 12 VA  
12 V, 1 A

Interfacing

Size

Weight

PC requirements

USB 1.1 or 2.0 compliant  
w x d x h = 12 x 13 x 2.5 cm

0.5 kg

Windows XP or Vista, with free USB port