

HE80

Potentiostat/galvanostat with impedance analyser designed for Electrolyser application

The HE80 series is our line of potentiostat/galvanostat instruments that has been designed especially for electrolyser application. The high current compliance in combination with high voltage capability makes it possible to test larger size electrolysers as well as multi-cell stacks. The integrated impedance analyser/FRA with frequencies up to 10kHz makes in-situ EIS studies possible, both for the total stack, as well as for each cell. The dedicated design offers a capable high power instrument for an affordable price.

COMPATIBLE WITH STACKANALYSER FOR EIS AT CELL LEVEL



Instrument Options & Modules



Current booster: stackable up to 500A



DataSecure for connection and PC-independent data storage



Cell and electrode multiplexers: up to 256 channels



Visit our website for a complete overview of our modules and functionality upgrades

Analysers • Current boosters • Multiplexers • RRDE rotator • Bipotentiostat



HE80 OVERVIEW	HE80	HE80-4
Current compliance	0 to +80A	±80A
Maximum output Voltage	+0,5V to +20V	±20V
Potentiostat		
Applied potential range	+0,5V to +20V, 0,15mV res.	±20V, 0,15mV res.
Applied potential accuracy	0,2%, or 2mV	
Current ranges	±10A and ±100A	
Measured current resolution	0,003% of current range, min, 0,3mA	
Measured current accuracy	0,1% of range + 0,2% of value	
Galvanostat		
Galvanostatic current ranges	+10A and +100A	±10A and ±100A
Measured potential ranges	+2mV to +20V	±2mV to ±20V
Measured potential resolution	0,0008% of potential range, min, 14nV	
Impedance analyser		
Frequency range	10µHz to 10kHz	
Amplitude	0,15mV to 2,0V, or 0,15% to 100% of current range	
Peripheral		
Analogue/Digital I/O	2 An in; 1 An out; 1 Gig in; 3 Dig out; VE out; AC out; Channel XY out	

demoSTAT



Smart introduction to electrochemical instrumentation

The demoStat is a small USB-powered potentiostat/galvanostat/ZRA with integrated FRA/EIS. It can perform all conventional electrochemical techniques, including EIS. It is intended as a low-cost investment for feasibility studies and demonstration, but is also perfectly suited for training and education. It is controlled via a USB connection from any netbook, laptop or PC that is Windows operated.



Compliance: 5mA@3V (2mA@6V)
FRA/EIS: 10µHz - 100kHz
Size: 95 x 60 x 8mm