

## 荷兰原装进口电化学工作站

### EmStat2 型便携式电化学工作站

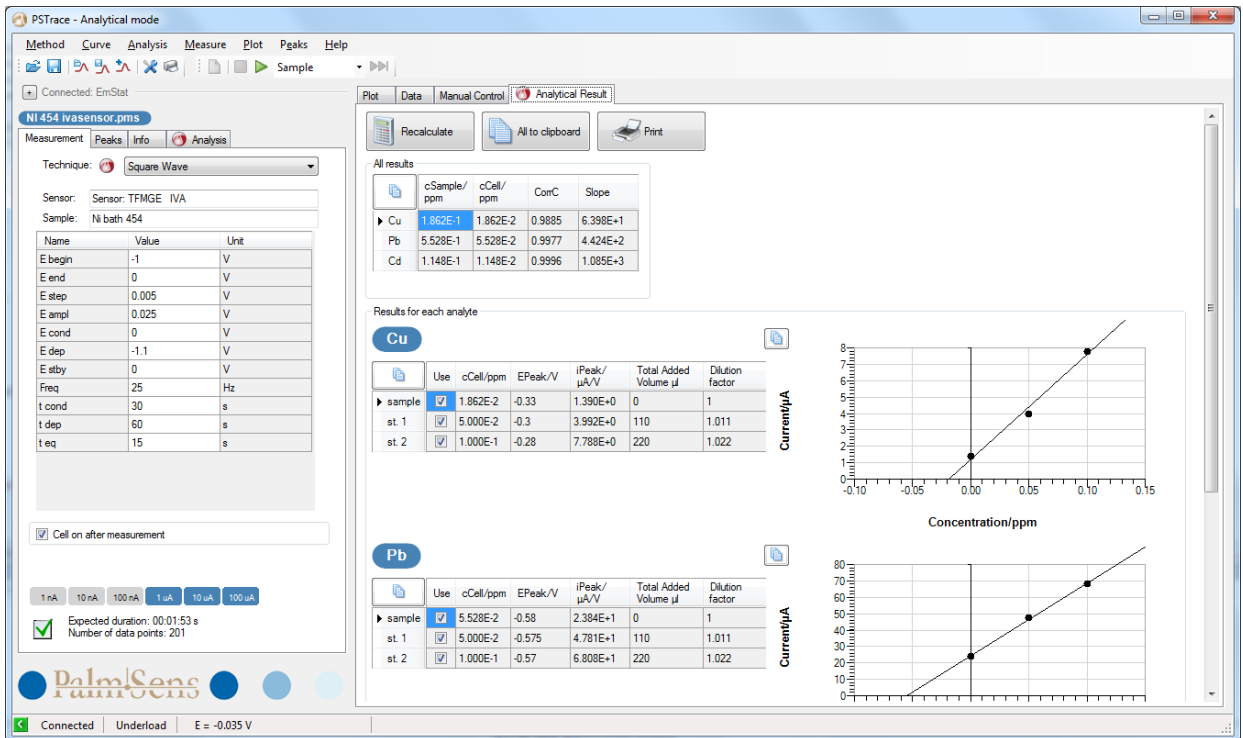
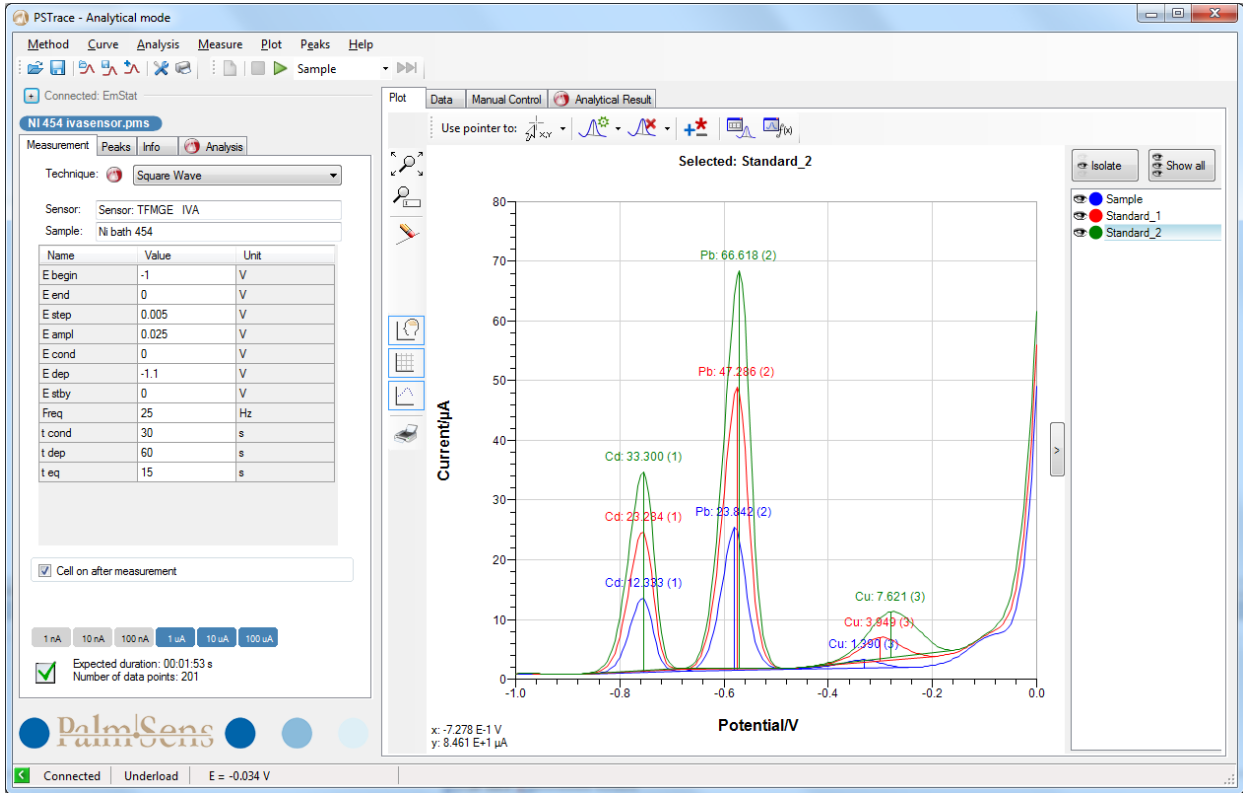


**EmStat2**

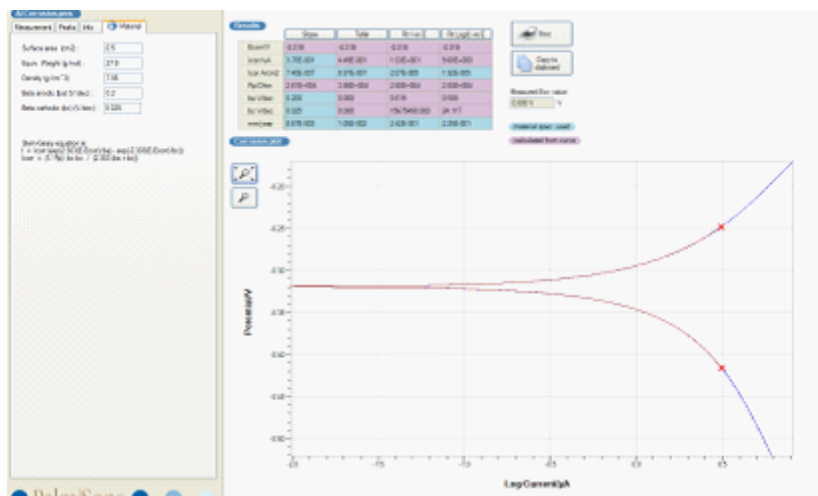
### 仪器简介:

EmStat2 迷你恒电位仪, 紧凑小型化设计, 用 USB 连接台式电脑或笔记本提供电源, 编辑 PSTrace 软件, 即可应用于绝大部分的伏安法和电流法技术。是性能价格比很高的仪器。

# PSTrace 定量分析模式



## PSTrace 腐蚀模式



### EmStat2 应用方法

NPV and DPV:	Scan rate:	0.2 mV/s (0.06 mV step) to 500 mV/s (5 mV step)
	Pulse time:	5 ms to 300 ms
SWV:	Frequency:	1 Hz to 500 Hz
LSV and CV:	Scan rate:	0.01 mV/s (0.06 mV step) to 5 V/s (5 mV step)
AD:	Interval time:	1 ms to 300 s
	Run time:	10 s to hours
PAD:	Interval time:	50 ms to 300 s
	Pulse time:	1 ms to 1 s
	Run time:	10 s to hours
MPAD:	Pulse times:	100 ms to 2 s
	Run time:	1 s to 100000 s
	Number of potential levels:	3
	Maximum number of points:	65000
Potentiometry at open circuit:	Interval time:	1 ms to 30 s
	Maximum run time:	100000 s
Multistep	Interval time:	100 ms to 30 s
Amperometry:	Number of potential levels:	1 to 255
	Number of cycles:	1 to 20000
	Maximum number of points:	200000

Note: some limits of parameters are set for practical reasons and can be modified on request.

(1) PSTrace provides the option to measure forward and reverse currents separately.



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### EmStat2 技术参数

- 直流电位范围  $\pm 2.000$  V
- 输出电压范围  $\pm 4.5$  V
- 直流电位分辨率 0.06 mV
- 偏置误差 2 mV
- 电位精度  $\leq 0.2$  %
- 电流量程 1 nA to 10 mA (8 ranges)
- 最大测定电流  $\pm 20$  mA
- 最大电流  $\pm 20$  mA
- 电流分辨率 0.1 % of current range  
1 pA on lowest current range
- 精度  $\leq 0.2$  % of current range at 100 nA to 100  $\mu$ A  
 $\leq 0.5$  % at 10 nA  
 $\leq 1$  % at 1 nA  
all with additional 0.2 % offset error
- 静电计放大器输入  $> 100$  Gohm // 4 pF
- 上升时间 approx. 200  $\mu$ s
- 尺寸: 6.7 cm x 5.0 cm x (1.9 to 2.8 cm)

### 标准携带箱



EmStat<sup>2</sup> MUX8 or MUX16多通路拓展器, 可以拓展到2-16通道



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