Luminescence studies: µStat ECL

Electrochemiluminescence instrument for Screen-Printed Electrodes

3 year instrument warranty

Basics:

Metrohm DropSens offers a compact, versatile and wireless solution to perform Electrochemiluminescence studies, combining in one equipment a biopotentiostat/-galvanostat and a photodiode integrated in an innovative cell for Screen-Printed Electrodes.

This miniaturized and portable alternative is perfect for performing Electrogenerated ChemiLuminescence (ECL) measurements.

Key features:

- Sensitivity towards very low level light signals.
- Obtaining of one luminescence total point per one electrochemical point.
- Electrochemical and Chemiluminescence responses are perfectly synchronized and shown in real time.
- Suitable for research with one marker specie.
- Can also be used independently as a Bipotentiostat/Galvanostat (EC mode).

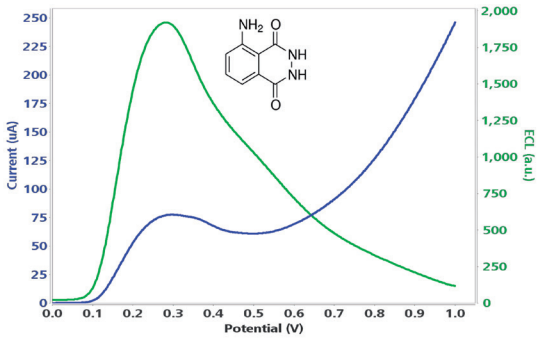
(Bi)Potentiostat / Galvanostat	
Operating modes	BiPotentiostat, Potentiostat, Galvanostat
DC-Potential range	±4 V
Current ranges (potentiostat)	±1 nA to ±10 mA (8 ranges)
Maximum measurable current	±40 mA
Potential ranges (galvanostat)	±100 mV, ±1 V (2 ranges)

Photodiode Cell	
Detector	Silicon photodiode with preamp
Spectral response range	340 - 1100 nm
Peak sensitivity wavelength	960 nm
Photo sensitivity at 960nm	0.62 V/nW (310 ecl units/nW)
PGA Gain	x1 - x10 - x100
Material	-ABS (not compatible with most of organic solvents)

Software:

µStat ECL is controlled by DropView 8400 Software, providing powerful functions such as:

- Remote control of the amplification for ECL signals (with x1, x10 and x100 gain).
- Plot overlay, peak integration, smoothing, subtraction, derivative curve, baseline fitting, etc.
- Script editor for programming specific work routines.
- Real Time dual axis plot to show at same time the ECL signal and the electrochemical measurement.
- 3D plotting of curves.



Metrohm DropSens