



DECADE II™ Electrochemical Detector

- Fits any UHPLC
- ADF (low pass filter) to improve S/N ratio
- DC, pulse and scan mode
- Unprecedented sensitivity

Highest sensitivity

The DECADE II detector offers flexibility and stable working conditions for all applications using Electrochemical Detection (ECD). It has a highly stable Faraday-shielded oven compartment accommodating the column and the electrochemical flow cell, to guarantee highest stability. To achieve unprecedented sensitivity in (U)HPLC/ECD the detector is equipped with a unique ADF filter to assure lowest noise level.

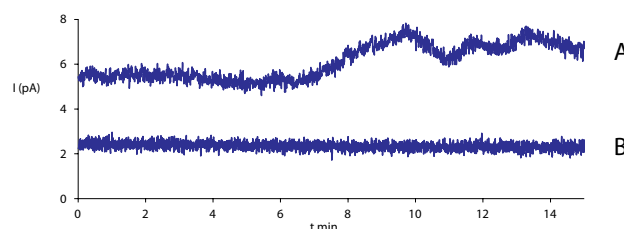
Flexibility and versatility

The DECADE II has a potential range of up to ± 2.5 V for optimal use of Magic Diamond™ (boron doped diamond) electrodes and can control up to 4 flow cells. They can be used in a parallel or serial configuration. The flow cells are known for their robustness, ease in maintenance and come with a 5 years warranty. The DECADE II covers a broad range of applications in the DC, pulse and scan mode. The DC mode is used for many high sensitivity applications such as neurotransmitters, vitamins and phenols. The pulse mode (Pulsed Amperometric Detection or PAD) is used for detection of carbohydrates. The scan mode is used to obtain a voltammogram in method optimization.



Temperature control

Baseline without temperature control (A) and baseline of DECADE II with temperature control (B).



DECADE II™

The DECADE II can be used with any UHPLC system such as Agilent (A), Dionex/Thermo (B), Jasco (C), Knauer (D), Shimadzu (E), Waters (F) to perform LC/ECD within a few hours after installation.



Specifications (for complete specs, see www.myAntec.com)

Power	100-240 VAC, 50/60 Hz, 260 VA max.
Operating modes	DC, PAD and Scan
Potential range	between ± 2.00 V (MD: ± 2.50 V & activation pulse)
Output	between ± 1 V or ± 10 V (20 bit D/A converter)
Auto zero	Triggered externally, or PC control
RS232C	Instrument control, data acquisition
Oven	Height 37 cm, from 7°C above ambient to 45°C, accuracy 0.5°C, stability 0.1°C; accommodates column and flow cell(s)
Regulatory	CE, cCSAus RoHS compliant
Rear panel I/O connections	Mains, Output, 2 Connectors 15 pins (A, B), manual valve (C), RS232C connector

DC

Ranges	10 pA – 200 μ A
Filter (cut off)	Advanced Digital Filter (0.5 - 0.001 Hz)
Noise	≤ 2 pA with a dummy cell (load of 300 MOhm / 0.5 μ F), filter off, Ec +800mV, range 1 nA/V

Pulse

Range	10 nA – 200 μ A
Pulse times	t1: 100 - 2000 ms; t2: 0 - 2000 ms; t3: 0 - 2000 ms
Sample times	20 ms until t1-60 ms

Scan

Range	10 nA – 200 μ A
Scan rate	1 - 50 mV/s cycle: half, full or continuous

Physical specifications

Dimensions	44 (D) x 22 (W) x 44 (H) cm = 17.3" (D) x 8.7" (W) x 17.3" (H)
Weight	max 14.6 kg (32 lbs) without flow cell and column



Part no	Description
171.0035	DECADE II single cell control
171.0038	DECADE II dual cell control

For triple, quadruple cell control and other configurations see: www.myAntec.com

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