



Decade II General Specifications

Power	110-240 VAC, 50/60 Hz, 260 VA, autosensing
Operating modes	DC, PAD and Scan (SDC had DC mode only)
Potential range	between ± 2.00 V in 10 mV increments ± 2.50 V in 10 mV increments (DECADE II MD only)
Output	between ± 1 V or ± 10 V (20 bit D/A converter)
Offset	between $\pm 50\%$ of max. output voltage, 5% steps
Event marker	pulse of 10% of max. output
Auto zero	triggered by keyboard, rear panel TTL input , or RS232C control
RS232C	Full parametric instrument control, data acquisition at 1, 2, 5 and 10 Hz
Injector sensor	Starts system clock at injection
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)
Diagnostics	LCD screen, keyboard and noise (internal dummy cell)
Service mode	system settings & calibration parameters
Config mode	menu for system customization and optimization
Activation mode	between E1 and E2, programmable duration (DECADE II MD only)

Firmware	upgradeable via PC (RS232)
Environmental	operating temperature: 4 – 40 deg C, rel. humidity: 20 to 80% non-condensing
Second flow cell	Acquisition and control of 2nd .. 4th flow cell (option)
Regulatory	CE, UL/CSA, RoHS compliant

DC mode

Ranges	10 pA – 200 μ A in 1, 2, 5 steps
Filter (cut off)	0.5 – 0.01 Hz in 1, 2, 5 steps
Noise	Better than 2 pA with a dummy cell (load of 300 MOhm and 0.5 μ F) with filter off, Ec +800mV and temperature of 30 oC.

PULSE mode

Range	10 nA – 200 μ A in 1, 2, 5 steps
Filter (cut off)	0.5 – 0.01 Hz in 1, 2, 5 steps
Pulse times	t1: 100 - 2000 ms; t2: 0 - 2000 ms; t3: 0 - 2000 ms in 10 ms steps
Sample times	20, 40, 60, 80 and 100 ms

SCAN mode

Range	10 nA - 200 mA in 1, 2, 5 steps
Scan rate	1 - 50 mV/s in 1, 2, 5 steps
Cycle	half, full or continuous

Events

Events	DC mode (5 files) and pulse mode (4 files), end cycle time, number of cycles and oven temperature. Time-based control of 50 time points as to range, filter, output contacts (2 TTL, 2 relays), auto zero, offset, valve position (if present), and E-cell.
--------	---

Rear panel

I/O connections

Mains, Output, 2 Connectors 15 pins (A, B), manual valve (C), RS232C connector

Physical specifications

Dimensions

44 (D) x 22 (W) x 44 (H) cm = 17.3" (D) x 8.7" (W) x 17.3" (H)

Weight

14 kg without flow cell and column

Flow cells options:

SenCell™



The SenCell is a new generation electrochemical flow cell specifically designed for highest sensitivity. The tool free assembly and the step less adjustable working volume guarantee for ease of use and fast noise stabilization. The small adjustable volume of 0 – 300 nL and pressure stability of several bars, make the cell ideally suited for use in (U)HPLC with Electrochemical Detection (ECD), i.e., LC/ECD.

VT03 cell™



The VT03 electrochemical flow cell has been developed for ultra-trace analysis in standard, microbore and capillary LC-EC. After extensive testing it was established that the confined wall-jet configuration gave excellent results. In addition, we found that the electrode materials quality and the finishing of the electrodes in the flow cell are decisive factors for the performance of an EC detector.

FlexCell™



The name FlexCell is chosen since it emphasizes the versatility and serviceability of this thin-layer flow cell in Antec's program. With this unrivalled design working electrodes can be serviced or replaced within a minute. This is particularly useful for pulsed amperometric detection applications using a gold electrode.