

ExionLC™ PDA Detector

Specifications

The ExionLC PDA (photo diode array) detector is an excellent option for identification, quantitation, and purity analyses at trace levels. A high sensitivity flow cell and low detector noise levels ensure uncompromised performance.

ITEM	SPECIFICATION
Light source	Deuterium lamp
Wavelength range	190-700 nm
Photo diode array elements	1024
Element resolution	0.5 nm/element
Slit width	1 nm, 8 nm, selectable
Spectral resolution	1.4 nm or less (under specified conditions)
Drift	1 x 10 ⁻⁴ AU/hour max (under specified conditions)
Noise level	±0.2 x 10 ⁻⁵ AU max. (under specified conditions)
Linearity	2.0 AU (caffeine, 272 nm, 1 nm slit)
Cell path length	10 mm
Cell volume	1 µL (excludes inlet or outlet tubing volumes)
Cell pressure limit	80 bar
Cell materials in contact with liquid	SUS316L, PTFE, ETFE, PFA (fluorocarbon polymers), PEEK, Graphite, quartz
Cell inlet/outlet volumes	4 µL between inlet and center of cell 4 µL between outlet and center of cell
pH range	1-13 (using mobile phases with a pH of 10 or above for long periods may damage the flow cell)
Cell inlet tubing diameter	I.D. 0.1 mm x length 450 mm
cell outlet tubing diameter	I.D. 0.1 mm x length 230 mm
ENVIRONMENTAL	
Working temperature	4°C to 35°C
Relative humidity	20-85%
Dimensions (w x h x d)	260 x 140 x 500 mm
Weight	12 kg
ELECTRICAL	
Power supply voltage	AC100 V to 240 V
Power consumption	150 VA
Rated breaking capacity	50A
Power supply frequency	50/60 Hz

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Headquarters

500 Old Connecticut Path, Framingham, MA 01701, USA
Phone 508-383-7800
sciex.com

International Sales

For our office locations please call the division
headquarters or refer to our website at
sciex.com/offices