

ExionLC™ UV Detector

Specifications

A general purpose variable wavelength detector, the ExionLC UV Detector adds additional flexibility to your ExionLC AC or AD system. Time programmable wavelength switching allows detection sensitivity and selectivity for your specific analytical workflows.

ITEM		SPECIFICATION
Light source		Deuterium lamp, tungsten lamp, mercury lamp (for wavelength accuracy check)
Wavelength range		190-900 nm 190-370 nm (deuterium lamp) 371-900 nm (tungsten lamp) Cut-off filter to eliminate 2nd order diffraction is automatically activated for the 701-900 nm range
Spectral bandwidth		8 nm
Wavelength accuracy		±1 nm
Wavelength reproducibility		±0.1 nm (under specified conditions)
Drift		1 x 10 ⁻⁴ AU/hour Max. (250 nm, 600 nm at constant room temperature, air in the cell) 3 x 10 ⁻⁴ AU/hour Max. (250 nm, 600 nm with room temperature fluctuation less than 2°C, air in cell)
Noise level		0.25 x 10 ⁻⁵ AU Max. (250 nm, 600 nm, air in cell, equivalent to 2 sec. time constant)
Linearity		2.5 AU (caffeine, 272 nm)
Cell path length		10 mm
Cell volume		12 µL
Cell pressure limit		120 bar
Cell materials in contact with liquid		SUS316L, PFA (fluorocarbon polymers), quartz
Cell inlet/outlet volumes		50 µL between inlet and center of cell 17 µL between outlet and center of cell
Cell temperature input range		9 - 50°C, at 1°C step
Dual wavelength mode	Measurement wavelength	Selectable, two wavelengths in 190-370 nm, 371-700 nm, 701-900 nm range
	Sampling frequency	1.2 sec for one wavelength
Response		Selectable in 11 steps corresponding to time constants: No-filtering, 0.05, 0.1, 0.5, 1.0, 1.5, 2.0, 3.0, 6.0, 8.0, 10.0 sec.
Range		Set between 0.0001 and 2.56 AUFS in 0.0001 AUFS steps
Zero adjustment		Auto zero function, baseline shift function
ENVIRONMENTAL		
Working temperature		4°C to 35°C
Relative humidity		20-85%
Dimensions (w x h x d)		260 x 140 x 420 mm
Weight		13 kg

ITEM	SPECIFICATION
ELECTRICAL	
Power supply voltage	AC100 V to 240 V
Power consumption	160 VA
Rated breaking capacity	40A
Power supply frequency	50/60 Hz
SAFETY	
Safety and EMC compatibility	ICES-001 Class B CE (EN61010-1, EN61326-1, EN55011 Class B) FCC Pt 15 Class B CAN/CSA-C22.2 No. 61010-01 UL std. No. 61010-1
Installation environment	Installation category II Pollution degree 2 Altitude 2000 m or lower Indoor installation

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