

HPLC Solutions

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OPAL UV-VIS FIXED WAVELENGTH DETECTOR

P/N 65000000

is a detector with an **interference filter**. By means of this filter can be this unit adjusted at one fixed wavelength in range of **200 – 800 nm**. Noise level at 254 nm is $\pm 0.5 \times 10^{-5}$ AU with an empty cell. (Filter is not include price)

The unit may be used for routine **analytical chromatography** as well as for **preparative chromatography**, according to the selected cell.

The unit is easy to operate, **reference and sample signals** are available for detector **diagnostics** as well as information on **lamp operating hours**.

Output signal is available in both digital and analogue form on the output connector. **It is possible to control the unit using the keypad or an RS232 interface**. Connecting capillaries are led from the detector's right side panel.

The detector is equipped with a high standard **deuterium lamp** in a special socket that enables **easy changing**. It is possible to change the interference filter by customer.

Specification

Wavelength range	200 - 800 nm
Spectral half-width	depending of used filter
Light source	Deuterium discharge lamp IST WL 24 198
Noise level at empty cell (254 nm, TC 1 s)	$\pm 0,5 \times 10^{-5}$ AU
Drift at empty cell (254 nm after 1 h)	2×10^{-4} AU/hr
Materials in contact with mobile phase	PTFE; fused silica, stainless steel, Vespel, PEEK
Time constant	Fast, middle and slow
Output for integrator	1 V/AU
Interface	RS 232
Power supply	100, 115 and 230V, 50/ 60 Hz)
Power input	80 VA
Dimensions (W x H x D)	220 x 170 x 450 mm
Weight	8 kg

INTERFERENCE FILTERS AT STOCK (together with unit order requested filter)

Wavelength (nm)	Spectral half width (nm)	P/N
214	12	42436
254	12	42435
280	10	42437
340	10	42438
560	10	42439

Other wavelength filters at request.

USED CELLS

HPLC 08 standard analytical measuring cell supplied with the unit

volume 10 μ l / optical path 5 mm ; diameters of capillaries input 1/ 16" x 0.2mm ; output 1/ 16" x 0.5 mm

Preparative cell PLCC 14 (optional)

volume/optical path (adjustable)	45 μ l / 0.1 mm 55 μ l / 1.4 mm 70 μ l / 2.4 mm
Cell connecting	tubing with OD = 1/8" or 1/16", thread 1/4"-28