



AIS 2600

## UV-VIS VARIABLE WAVELENGTH DETECTOR

P/N 67000000

is a detector with continuously variable wavelength in the range of **190 – 800 nm** and a noise level  $\pm 0.33 \times 10^{-5}$  AU. 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**. Wavelength can be **programmatically changed** during

the performance of an analysis. The detector performs **automatic wavelength calibration** after the lamp has been switched on. A HPLC 04 analytical cell is included as a component of the detector

### Specification

Wavelength range	190 - 800 nm
Spectral half-width	6 nm
Accuracy of adjustment	$\pm 1$ nm
Reproducibility	$\pm 0.1$ nm
Light source	Deuterium discharge lamp IST WL 24 198
Noise level at empty cell (240 nm, TC 1 s)	$\pm 0.33 \times 10^{-5}$ AU
Drift at empty cell (240 nm after 1 h)	$1 \times 10^{-4}$ AU/hr
Materials in contact with mobile phase	PTFE; fused silica, stainless steel, Vespel, PEEK
Time constant	Fast, middle and slow
Programming	3 change of wavelength during analysis
Adjustable offset	$\pm 50$ mV
Output for integrator	1 V/AU
Interface	RS 232
Power supply	100, 115 and 230, 50/ 60 Hz)
Power input	80 VA
Dimensions (W x H x D)	220 x 170 x 450 mm
Weight	11 kg

### USED CELLS

**HPLC 04 standard analytical measuring cell** supplied with the unit

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

**MLCC 02 Microcell** (optional)

volume 0.5  $\mu$ l / optical path 0.8 mm ; diameters of capillaries input 1/16" x 0.2mm output 1/16" x 0.2 mm

**PLCC 04/05 Preparative cell** (optional)

volume/optical path (adjustable)	45 $\mu$ l / 0.3 mm
	55 $\mu$ l / 1.4 mm
	70 $\mu$ l / 2.4 mm

Connecting of PLCC 04 / PLCC 05	SS capillaries 1/16" x 1.1mm / FEP 1/8" x 1/16"
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