

# FLASH 10 DAD 800

## DETECTOR



is an UV-VIS diode array detector, which allows measuring absorbance of **four wavelengths simultaneously in one cell** just as measuring of whole spectrum (scan). More wavelengths are used in liquid chromatography **to verify purity of analyzed samples** or in situations when some peaks absorb on different wavelengths. It is possible to use the detector in **flash and preparative** applications.

It is possible to control the detector **manually by keyboard and display** but also by **RS232**. At the back panel are available **four analog outputs**

The unit's DAD (diode array detector) design offers many advantages:

- absorbance measuring **on four wavelengths simultaneously**
- wavelength setting **from 190 up to 840 nm** in increments of 1nm

- **on line scan of whole spectrum**
- lamp work hours are counted **using the built-in counter** for both deuterium and halogen lamps
- **the cell is easy to replace** from the side of the detector
- **powering by 90-264 V**
- **unit is controlled by RS232 and keyboard**
- **signals are available in analog and digital form**
- **easy service and diagnostic using display and keyboard**

## SPECIFICATION

### TECHNICAL PARAMETERS:

Wavelength range	190 - 840 nm (256 elements on CCD)
Typical spectral half-width	10 nm
Accuracy of adjustment	± 1 nm
Reproducibility	± 0.5 nm
Light source	Deuterium discharge lamp and halogen lamp
Noise level at test cell (254 nm, TC 0.75 s)	± 5 x 10 <sup>-5</sup> AU
Drift at test cell (254 nm after 1 h)	1 x 10 <sup>-3</sup> AU/hr
Materials in contact with mobile phase	PTFE, fused silica, stainless steel
Time constant (T90)	0.5 s; 0.75 s; 1 s or 2 s (T63 0.3s;0.4s;0.6s;1s)
Digital output for integrator	1 V/AU
Four 1V analog outputs for integrator with sensitivity switching	5; 3; 2; 1; 0.5; 0.25; 0.1; 0.05 AU/V
Interface	RS232
Power supply	90-264 V
Power input	110 VA
Dimensions (W x H x D)	135 x 170 x 418 mm
Weight	6.0 kg

### PREPARATIVE CELL PLCC 09 (SUPPLIED WITH UNIT)

Volume / Optical path	20 ul / 10 mm
Cell connecting	tubing with OD 1/16", thread UNF 10-32
Maximal flow rate	50 ml/min