

FLASH 06S DAD 800

DETECTOR IN HOUSING



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). This unit is used in liquid chromatography **to verify analyzed samples** by means of four wavelengths or in situations when some **peaks absorb on different wavelengths**. It is possible to use the detector in **flash and preparative** applications. By using analytical cell can be detector used also for analytical purpose.

Noise level at 254 nm is $\pm 5 \cdot 10^{-5}$ AU with a test cell.

The unit is designed **as stand alone with 90-264 V power supply** and RS232 controlling. It is derived from OEM build-in unit with powering 24-36 V DC.

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

- absorbance measuring **on four wavelengths simultaneously**

- wavelength setting **from 200 up to 840 nm** in increments of 1nm
- **scan of whole spectrum is possible in each time**
- 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 interface**

SPECIFICATION

TECHNICAL PARAMETERS:

Wavelength range	200 - 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)	$\pm 5 \times 10^{-5}$ AU
Drift at test cell (254 nm after 1 h)	1×10^{-3} AU/hr
Materials in contact with mobile phase	PTFE; fused silica, stainless steel, PTFE
Time constant (T90)	0.5 s; 0.75 s; 1 s or 2 s (T63 0.3s;0.4s;0.6s;1s)
Output for integrator	1 V/AU (in digital form only)
Interface	RS232
Power supply	90-264 V
Power input	90 VA
Dimensions (W x H x D)	220 x 170 x 450 mm
Weight	7.9 kg

PREPARATIVE CELL PLCC 15 (SUPPLIED WITH UNIT)

volume/optical path (adjustable)	45 μ l / 0.3 mm (basic) 55 μ l / 1.4 mm 70 μ l / 2.4 mm
Cell connecting	tubing with OD = 1/8", thread 1/4"-28
Maximal flow rate	500 ml/min (3 000 ml/min with PLCC 3L)