

# FLASH 06 DAD 800

## DETECTOR



is an OEM build-in type of 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. Thanks used deuterium and halogen lamps can the unit measure in both ultraviolet and visible range.

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

The unit is designed **as build in unit with 24-36V power** supply and RS232 controlling. On request can be sold in classical case with 90-264 V powering.

**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
- **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 24–36V DC**
- **unit is controlled by RS232 interface**

### SPECIFICATION

#### TECHNICAL PARAMETERS:

Wavelength range	190 - 840 nm (256 elements on CCD)
Typical spectral half-width	10 nm
Accuracy of adjustment	$\pm 1$ nm
Reproducibility	$\pm 0.5$ 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)	$1 \times 10^{-3}$ 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	24–36 V DC
Power input	60 W
Dimensions (W x H x D)	131 x 167 x 386 mm
Weight	4.3 kg

#### PREPARATIVE CELL PLCC 15 (SUPPLIED WITH UNIT)

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