

FLASH 06S DAD 600 EX

DETECTOR



is a UV 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 $\pm 8 \cdot 10^{-5}$ AU with short-connected 1m long fiber optics cable (optical cable).

The unit is designed as **stand-alone unit with 90-264V power supply** and RS232 controlling. On request can be sold without case as built-in OEM unit with 24-36V DC powering.

Cell is installed out of unit and it is connected to the unit using fiber optic cable with **SMA connectors**. It

is possible connect the detector to a cell for **ITP** or with cell **PLCC 20** use it for preparative or flash chromatography.

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

- absorbance measuring on four wavelengths simultaneously
- wavelength setting from 200 up to 600 nm in increments of 1nm
- scan of whole spectrum is possible in each time
- lamp work hours are counted using the built-in counter
- allow external cell connection by using fiber optic cables
- unit is controlled by RS232 interface

SPECIFICATION

TECHNICAL PARAMETERS:

Wavelength range	200 - 600 nm (256 elements on CCD)
Typical spectral half-width	8 nm
Accuracy of adjustment	± 1 nm
Reproducibility	± 0.5 nm
Light source	Deuterium discharge lamp
Noise level with short-connected 1m long fiber optics (254 nm, TC 0.75 s)	$\pm 8 \times 10^{-5}$ AU
Drift with short-connected 1m long fiber optics (254 nm after 1 h)	4×10^{-3} AU/hr
Materials in contact with mobile phase	According to used cell. Typically: 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

External cell and fiber optics are not part of delivery and have to be ordered separately. We offer external cell **PLCC 20** for preparative applications with flow-rate up to 15 L/min.