

TOY18DAD V 400, 600, 800

UV-VIS DETECTORS



are UV (UV-VIS) diode array detectors, which allow 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 substances 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 using **RS232, USB or LAN**. At the back panel are available **four analog outputs** and connector for **I/O logical input and output** signals.

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

- absorbance measuring **on four wavelengths simultaneously**
- wavelength setting in increments of 1 nm
- **on line scan of whole spectrum with speed up to 20 Hz which allows to create 3D picture**
- 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 100-240 V AC
- unit can be controlled by **RS232, USB, LAN** or keyboard
- **signals are available in analog and digital form**
- **easy service and diagnostic** using display and keyboard or by service SW

SPECIFICATION

	TOY18DAD400 V	TOY18DAD600 V	TOY18DAD800 V
Part number	TOYV003X	TOYV013X	TOYV033X
Wavelength range (Number of CCD elements)	200 - 400 nm (128)	200 - 600 nm (256)	200 - 800 nm (256)
Typical spectral half-width	10 nm		
Accuracy of wl. adjustment / Reproducibility	± 1 nm / ± 0.5 nm		
Noise level at test cell (254 nm, TC 1s)	± 5 × 10 ⁻⁵ AU		
Drift at test cell (254 nm after 1 h)	1 × 10 ⁻³ AU/hr.		
Output signal	Four wl. (channels) or scan with speed up to 20 Hz with step of 1 nm		
Light source	D2 lamp	D2 lamp	D2+Halogen lamp
Ranges of four adjustable 1V analog outputs	5; 2; 1; 0.5; 0.2; 0.1 AU/V		
Digital output	1 V/AU		
Interface	RS232, LAN, USB, Analog output 4x		
Power supply	100-240 V AC		
Power input	100 VA		
Dimensions (W x H x D)	135 x 170 x 340 mm (5.32 x 6.69 x 13.39 in)		
Weight	4.4 kg (9.7 lb)		

PREPARATIVE CELL PLCC 15 (SUPPLIED WITH UNIT)

Volume / optical path (adjustable)	45 µl / 0.3 mm; 55 µl / 1.4 mm; 70 µl / 2.4 mm
Flow-cell connecting	tubing with OD = 1/8", thread 1/4"-28
Maximal flow rate	500 ml/min. (3 000 ml/min. with PLCC 3L)