

TOY18DAD 400 H

TWO CHANNEL UV DETECTOR
FOUR CHANNEL UV DETECTOR
SCANNING UV DETECTOR



is a standalone UV detector suited for preparative and flash chromatography with diode array (DAD) in range 200 – 400 nm. It is offered in the following versions:

Two Channel version measures at **two wavelengths simultaneously** with possibility to see **current scan**.

Four Channel version measures at **four wavelengths simultaneously** with possibility to see **current scan**.

Scanning version measures at **four wavelengths simultaneously** or **sends scan with speed 20 Hz** which allows to create 3D picture.

More wavelengths or scan are used in liquid chromatography to **verify purity of analyzed samples** or in situations when some peaks absorb on different wavelengths.

Most important features of TOY18DAD H detectors:

- **built-in lamp working hours counter**
- **easy replacement of flow cell**
- **measuring at more wavelengths simultaneously**
- **sophisticated diagnostic software**

SPECIFICATION

	TOY18DAD 400 H Two Channel UV Detector	TOY18DAD 400 H Four Channel UV Detector	TOY18DAD 400 H Scanning UV Detector
Part Number	TOYH010Y	TOYH020Y	TOYH030Y
Wavelength range	200 – 400 nm (128 elements on CCD)		
Number of channels (Signals)	2	4	4
Scan	Informative 200 – 400 nm	Informative 200 – 400 nm	200 - 400 nm, 20 Hz, step 1 nm
Typical spectral half-width	10 nm		
Accuracy of adjustment/Reproducibility	± 1 nm / ±0.5 nm		
Noise level at test cell (254 nm, TC 0.75s)	± 5 x 10 ⁻⁵ AU		
Drift at test cell (254 nm after 1 h)	1 x 10 ⁻³ AU/hr		
Materials in contact with mobile phase	FEP; fused silica, stainless steel, PEEK, KEL-F		
Time constant (T63)	0.5 s, 0.75 s, 1.0 s, 2.0 s, 4.0 s, 8.0 s, 16.0 s, 0.2 s, 0.1 s		
Interface	RS232, USB, LAN		
Power supply	100-240 V		
Power input	100 VA		
Dimensions (W x H x D)	280 x 135 x 498 mm (11.02 x 5.32 x 19.61 in)		
Weight	7.5 kg (16.53 lb)		

PREPARATIVE CELL PLCC 15L IN BRACKET (SUPPLIED WITH UNIT)

volume/optical path (adjustable)	40 µl / 0.3 mm
Cell connecting	tubing with OD = 1/8", thread 1/4"-28
Maximal flow rate	500 ml/min. (3 000 ml/min. with PLCC3L)