## **P/N ANW0000X**



## **ECDA2800**

## **UV-VIS PDA** DETECTOR

Is an analytical **Diode Array Detector** which allows measuring absorbance of eight **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 eight wavelengths or scanned spectra.

Noise level at 254 nm is  $\pm 5 \cdot 10^{-6}$  AU with a test cell.

High standard **deuterium lamp** in a special socket enables **easy exchange** from front panel.

Output signal is available in both digital and analogue form. Detector could be controlled by Clarity or ECOMAC software.

Cell could be easily removed from the front of the unit. Three selectable flow cells **AD02**, **AD05** and **AD10** with optical path length 2.4, 5 and 10 mm. AD05 cell is included as component of the detector. Other cells on request.

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



- continuous up to 100 Hz scan or absorbance measuring on eight wavelengths simultaneously
- wavelength setting from 200 up to 800 nm in increments of 1nm
- 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
- Clarity PDA module support for 3D measurement
- unit is controlled by Ethernet or USB interface

## SPECIFICATION

TECHNICAL PARAMETERS

Wavelength range	200-800 nm
Spectral half-width	10 nm
Accuracy of adjustment	±1nm
Reproducibility	± 0.5 nm
Light source	Deuterium discharge lamp, halogen lamp
Noise (Test cell, 254nm, TC 1s, 10 Hz)	± 5·10 <sup>-6</sup> AU
Drift (Test cell, 254nm)	1·10 <sup>-4</sup> AU/hr.
Time constant	10 – 10 000 ms
Sampling speed	up to 100 Hz
Digital output	1 V/AU
Analog output	4x configurable
Wetted materials	fused silica, stainless steel, PEEK
Communication	Ethernet(LAN), USB
Display, keypad	VFD 140x32 pixels, 10 pushbuttons
Power supply	100-240V 50/60Hz 110VA
Dimensions ( w x h x d )	280 x 135 x 498 mm (11.0"x 5.3" x 19.6")
Weight	9 kg

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