

ECD2800 CE

UV-VIS DETECTOR



This detector with wavelength in the range of **190-800** is derived from basic type **ECD2800**. It is originally designed for use in **capillary electrophoresis (CE)**. Newly developed cell enables easy installation of quartz capillaries and minimizes interference by ambient light as well as mechanical shocks. The light is brought into the cell using optical fiber, which is focused in the center of quartz capillary for electrophoresis.

Detector is easy to operate, light intensities for **reference and measuring** channel are available for easy detector **diagnostics** as well as information about **lamp operating hours**. The detector performs **automatic wavelength calibration** after lamp start. High standard

deuterium lamp in a special socket enables **easy lamp exchange**.

Output signal is available in both **digital and analogue** form. Detector can be controlled, programmed and used together with **Clarity** or **ECOMAC** software via **RS232** or **Ethernet** interface.

SPECIFICATION

TECHNICAL PARAMETERS

Wavelength range	190-800 nm
Spectral half-width	6 nm
Accuracy of adjustment	± 1 nm
Reproducibility	± 0.5 nm
Light source	Deuterium discharge lamp and halogen lamp
Noise (Test cell, 254nm, TC 1s, 10 Hz)	± 10·10 ⁻⁶ AU
Drift (Test cell, 254nm)	1·10 ⁻⁴ AU/hr.
Time constant	20 – 10 000 ms
Sampling speed	Up to 100 Hz
Digital output	1 V/AU
Analogue output	1x configurable
Communication	RS232, Ethernet(LAN)
Power supply	100-240V 50/60Hz 100VA
Dimensions (w x h x d)	280 x 135 x 498 mm
Weight	9 kg

