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## Series 200EP Photo Diode Array Detector

Increase your confidence in your results



### Uncompromised quantitative analysis – now at your fingertips

Getting answers – not just data – to your analytical questions is what PerkinElmer's Series 200 Photo Diode Array (PDA) HPLC System is all about.

The newest addition, the Series 200EP (Enhanced Performance) PDA Detector, is designed for uncompromised quantitative analysis of complex mixtures.

It provides deeper insights into your results through superior linearity and best-in-class spectral integrity – all under single-point control by PerkinElmer's TotalChrom® Chromatography Data Systems (CDS).

The Series 200EP PDA Detector is fully network compatible, providing fast and secure transmission of chromatographic and spectral data via TCP/IP.

The excellent signal-to-noise characteristics of the Series 200EP PDA Detector make it ideally suited for low-volume or low-concentration samples. With its wide linear dynamic range and low drift, the Series 200EP PDA Detector is the ideal tool for demanding quantitative analyses like impurities in drugs or environmental samples with wide variation in compound concentration. In addition, the spectral data generated is quickly and easily processed by our powerful IRIS® spectral processing software. It offers a full suite of functionality and an intuitive user interface, all protected under a fully 21 CFR Part 11-compliant architecture.

### Key Benefits

- Superior linearity allows uncompromised qualitative-quantitative analyses
- Best-in-class spectral integrity delivers improved peak identification and purity
- Low drift maximizes repeatability of results
- Full suite of functionalities on a flexible platform
- Intuitive spectral processing user interface
- All protected under a 21 CFR Part 11 fully-compliant architecture

### Sophisticated software toolset

Fully integrated within TotalChrom CDS to streamline your laboratory's operation, the Series 200EP PDA Detector coupled with IRIS software allows you to access, display and manipulate spectral data with impressive speed and flexibility. Ten channels can be automatically processed at the end of the run, each with its own integration and quantitation parameters. IRIS software also provides the purity and lambda max of your components and includes this valuable information in both your chromatographic report and result file. Use the Series 200EP PDA Detector to develop, qualify or evaluate methods and samples. And through TotalChrom's networking power, share your results within your laboratory or anywhere in your organization – easily.

#### Specifications

Detection type Single beam polychromator  
Sources Simultaneous Deuterium lamp and Tungsten-halogen lamp  
Number of diodes 512  
Wavelength range 190 - 700 nm  
Resolution 1.09 nm/diode  
Absorbance range -0.005 to > 2.6 AU  
Linear dynamic range < 5% @ 1.8 AU  
Wavelength accuracy  $\pm 1$  nm  
Wavelength setability 1 nm  
Spectral bandwidth 1 to 175 nm  
Short-term noise  $\pm 1.0 \times 10^{-3}$  AU peak to peak at 254 and/or 650 nm, 20-nm bandwidth, 2-second response time, slit width 4-nm effective calculations per ASTM @ 1 mL/min w/100% methanol  
Drift  $0.7 \times 10^{-3}$  AU/hour  
Flow cells 10-mm biocompatible included with detector; 8, 6 and 3-mm flow cells also available  
Flow cell pressure rating 500 psi on standard flow cell  
Output TCP/IP or RS-232 to TotalChrom. Spectral data output via TCP/IP.  
Dimensions Height: 24.2 cm (9.5 in)  
Width: 31.8 cm (12.5 in)  
Depth: 55.5 cm (21.3 in)  
Weight: 15.5 kg (34.1 lb)  
Electrical requirements 120 to 240 VAC, 50/60 Hz, 195 VA

#### Ordering Information

##### Part Number Description

N2920020 Series 200EP Photo Diode Array Detector, 120/240 V, 50/60 Hz (includes 10-mm biocompatible flow cell)  
29000542 Stainless Steel Flow Cell (8 mm)  
29000544 Microbore Stainless Steel Flow Cell (6 mm)  
29000545 Ultra Low Volume Stainless Steel Flow Cell (3 mm)



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