

PN3241 UV-Vis/DAD

4-Channel UV-Vis/DAD Detector



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Features

The PN3241 4-channel UV-Vis/DAD detector provides users with a very high level of sensitivity, stability and multiple wavelength for 4 channels simultaneously. The PN3241 attains sensitivity levels approaching the most advanced UV-Vis detectors. With an 8 nm slit width it has a high-sensitivity mode. Using light-source compensation, it offers a noise level of 0.6×10^{-5} AU, which is comparable to that of traditional UV-Vis detectors.

- **Greater Baseline Stability**

Supplied as standard, a temperature-controlled flow cell eliminates inconsistencies caused by changes in absorbance due to shifts in room temperature. This helps increase the base-line stability and the analysis reliability.

- **Superior Linearity ≥ 2 AU**

Using newly developed signal processing technology, the stray-light correction function has been enhanced, and the linearity has been improved. This expanded linearity combines various noise-reduction technologies to provide users with a wide dynamic range and allows the analysis of your target compound and minor impurities in a single run.

- **Web Browser Control**

The PN3241 is equipped with an ethernet interface and web-control functions, allowing devices to be monitored and controlled from PCs in the network.

- **Additional Features**

The PN3241 can be used as a 4-channel UV-Vis detector, this is especially important for customers that want to have more than one UV trace.

For using the PN3241 as a DAD detector in order to get spectral information and purity analysis an additional software module is necessary: P-LC-SHD-002.

Ordering Information

S-DET-3241-001 PN3241 UV-Vis/DAD Detector

Flow Cells

Z-DET-3241-001	Analytical, Peek
Z-DET-3241-002	Analytical, Stainless Steel
Z-DET-3241-003	Preparative, Stainless Steel

Detector Lamps

Z-DL-PN3241	D2-Lamp, Pre-aligned, Longlife
Z-DL-PN3241vis	Vis-Lamp

DAD Software

P-DL-SHI-002	LC Workstation Single PDA
P-DL-SHI-003	LC Evaluation Single PDA (stand-alone use only)

Specifications

- Light Source: Deuterium lamp, Tungsten lamp
- Wavelength Range: 190 – 800 nm
- Wavelength Accuracy: ± 1 nm
- Element Resolution: 1.2 nm / element
- Spectral Resolution: ≤ 1.4 nm (using 253.7 nm Hg emission line, 1.2 nm slit width)
- Noise Level: $\pm 0.3 \times 10^{-5}$ AU
- Drift: 0.5×10^{-3} AU/h
- Linearity: ≥ 2 AU (ASTM standard)
- Analogue Output: 4 channels
- Analogue Output Range: 0.5, 1, 1.25, 2, 4 AU/V
- Temperature Sensor: 100°C (housing heat protection)
- Leak Sensors: Leak Detection
- Lamp Cover Sensor: Lamp automatically extinguished if cover is removed (UV light protection, high voltage protection)
- Operating Conditions: 4 – 35°C, 45–85 % humidity, no condensation
- Optical Path Length: 10 mm
- Cell Volume: 10 μ L
- Pressure Resistance: 12 MPa
- Wetted Surface Materials: SUS316L, quartz glass, PFA
- Cell Temperature Control: 5°C above room temperature to 50°C (in 1°C steps) Precision 0.1°C
- Dimensions (WxHxD): 260 x 140 x 420 mm
- Weight: 12 Kg
- Power Requirements: 100/120/220-240 V, 50/60Hz

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