POSTNOVA

PN3212 UV-Vis

2-Channel UV-Vis Detector

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PN3212 UV-Vis Detector

Features

The PN3212 2-channel UV-Vis detector provides an exceptional level of sensitivity and stability. As a high sensitive UV-Vis detector, the PN3212 has a noise level of 0.5 × 10E-5 AU max., making it to one of most sensitive UV-Vis detectors (ASTM Standards).

- **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.

- **Internal Validation Protocol**
  The incorporation of a low-pressure mercury lamp for wavelength calibration ensures simple calibration in the ultraviolet region.

- **Dual-Wavelength Measurement**
  Monitor two components in the UV or Vis range simultaneously.

- **Simultaneous D2 and W Lamp Illumination**
  Available with the PN3212, users can eliminate warm-up time and baseline disturbances during wavelength programming between the UV and Visible range. With both lamps lit, high-sensitivity analysis throughout the full wavelength spectrum is ensured.

Ordering Information

S-DET-3212-001	PN3212 UV-Vis Detector

Flow Cells

Z-DET-3212-001	Analytical, Peek
Z-DET-3212-002	Analytical, Stainless Steel
Z-DET-3212-003	Preparative, Stainless Steel

Detector Lamps

Z-DL-PN3212	D2 Lamp, Pre-aligned, Longlife
Z-DL-PN3212vis	Vis Lamp

Specifications

- Light Source:
  Deuterium lamp, tungsten lamp
- Wavelength Range:
  190 – 900 nm
- Wavelength Accuracy:
  ± 1 nm
- Noise Level:
  ± 0.25 x 10E-5 AU max.
- Drift:
  1 x 10E-4 AU/h max.
  (250 nm, 600 nm room temperature constant, air in cell)
  3 x 10E-4 AU/h max.
  (250 nm, 600 nm room temperature fluctuation less than 2°C, air in cell)
- Operating Temperature:
  4 - 35°C
- Cell Temperature Range:
  5°C above room tempertature to 50°C, at 1°C steps
- Response:
  11 steps selectable (corresponding to time constant
  0.02, 0.05, 0.1, 0.5, 1.0, 1.5, 2.0, 3.0, 6.0, 8.0, 10.0 sec)
- Range:
  0.0001 – 2.56 AUFS (selectable in 0.0001 AUSF steps)
- Zero Adjustment:
  Auto zero function, baseline shift function
- Wavelength Steps:
  1–5 nm, selectable in 5 steps
  2–5 nm when W lamp is used
- Scanning Speed:
  10 – 50 nm/sec, in 5 steps
- Spectrum Plot:
  output speed 1, 3, 10 nm/sec
- Optical Path Length:
  10 mm
- Cell Volume:
  12 µL
- Pressure Resistance:
  12 MPa
- Wetted Surface Materials:
  SUS316L, quartz, PFA
- Dimensions (WxHxD):
  260 x 140 x 420 mm
- Weight:
  13 Kg
- Power Requirements:
  100/120/220-240 V, 50/60Hz

Contact

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