112UV Detector





Fixed-Wavelength UV Detector

Feature

- Wavelengths available: 254 nm or 280 nm
- Wide range of flow cells
- Easy-to-change lamp and filter assemblies
- Dual-beam, filter-based optics
- One-step baseline and eventmarking functions

Applications

- Analytical HPLC
- Preparative HPLC
- Drug discovery
- Drug metabolism
- Protein and peptide separations

Benefit

- Allow detection of a wide range of compounds that absorb in the UV range
- Allows for analysis at microbore, analytical, semi-prep and preparative flows
- Minimize downtime during wavelength changeover or lamp replacement
- Ensure equal illumination of both the sample cell and the reference aperture to maintain baseline stability at high sensitivity
- Automatically zero the baseline and mark chromatographic events for viewing—with the push of a button



Technical Specifications

| Flow Cells | Flow Cell | Path (mm) | Volume (μL) | psi |
|-------------------------|--|-------------------|--------------------|------------------|
| | | , | , | • |
| | HPLC | 10.0 | 11.0 | 1000 |
| | LC | 10.0 | 40.0 | 1000 |
| | Microbore | 5.0 | 1.3 | 1000 |
| | Preparative | 2.0 | 10.0 | 1000 |
| | Preparative | 0.5 | 2.5 | 1000 |
| | Preparative | 0.1 | 0.3 | 1000 |
| Flow Cell Sensitivity | <4 x 10 ⁻⁴ AU for | flow step of 0.5 | 5–2 mL/min witl | h methanol |
| Sensitivity Range | 0.0001 to 1.0 AU | with standard fl | ow cell installed. | . Up to 100 AU w |
| Detector Type | UV silicon phot | odiode | | |
| Monochromator | Dual beam with Range: 254 and Spectral bandw | 280 nm standar | d (selectable on | front panel) |
| Autozero Range | -0.5 to + 1 AU, 1 | o within 5 x 10 | ⁵ AU; front pane | el or remote act |
| Drift | 3 x 10 ⁻⁴ AU/hr | | | |
| Event Marker | Negative deflec | tion on trace; fi | ront panel or re | mote activation |
| Noise | 254 nm, short to 280 nm, short to | | | |
| Reference Chamber | Air | | | |
| Temperature Sensitivity | 3.0 x 10 ⁻⁴ /°C for | temperature ch | nange from 21° | to 24°C |
| Lamps | Standard: Merc | ury (254 nm), lif | e of 2000 hours | s; Phosphor-coa |
| Time Constant | 0.1, 0.2, 0.5, 1, 2 | or 5 seconds; s | electable on fro | ont panel |
| Communication Interface | Event and auto | zero inputs; thr | ee channels out | put data to a re |
| Display Panel | LCD indicator sl | nows percent o | f full-scale outp | ut |
| Power Requirements | Frequency: 50– Voltage: 100–12 Current rating: | 20 or 220–240V | | |
| Manufacturing Standards | Meets applicab | e Safety and El | MC certification | standards; UL a |
| Dimensions (w x d x h) | 32 x 32 x 13 cm | (12.6 x 12.6 x 5 | .2 in.) | |
| Instrument Weight | 7 kg (16 lbs.) | | | |
| Shipping Weight | 10 kg (23 lbs.) | | | |

For applications or additional information, contact your local Gilson Technical Sales Representative or visit www.gilson.com.

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