

AZURA UVD 2.1S UV Detector

The AZURA UVD 2.1S is a highly competitive single variable wavelength UV detector for HPLC. It offers excellent technical specifications for routine laboratory work.

The UVD 2.1S comes in the novel small AZURA housing. The installed deuterium lamp covers a wavelength range from 190 to 500 nm. The UV detector can be controlled with OpenLab EZChrom Edition[®], ChromGate[®] and ClarityChrom[®] software, as well as from the front panel (stand-alone operation), via LAN, via RS-232, or through analog input/output; allowing it to be integrated into almost any LC system.



Due to a smart design the flow cell is easily accessible and can be changed very quickly. You can choose between a wide range of flow cells for analytical or preparative LC applications with flow rates from 10 µl/min up to 10 l/min.

A fiber optic version offers the possibility to separate the flow cell spatially from the device thus providing enhanced security for hazardous, explosive or toxic work processes.

Key features

- Very small and compact design
- Variable single wavelength
- Large choice of flow cells
- Wavelength range from 190 - 500 nm
- Flow rates from 10 µl/min. up to 10 l/min.
- Allows measurements in hazardous, explosive or toxic environments (fiber optic version)

Specifications

(All technical data is subject to change without notice.)

Detection	
Detector type	Small variable single wavelength UV detector
Detection channels	1
Light source	Deuterium (D ₂) lamp with integrated GLP chip
Wavelength range	190 - 500 nm
Spectral bandwidth	13 nm at H _α line (FWHM)
Wavelength accuracy	± 3 nm
Wavelength precision	0.7 nm (ASTM E275-93)
Noise	± 2.0 x 10 ⁻⁵ AU at 254 nm (ASTM E1657-98)
Drift	3.0 x 10 ⁻⁴ AU/h at 254 nm (ASTM E1657-98)
Linearity	> 2.0 AU at 270 nm (ASTM E1657-98)
Time constants	0.00 / 0.02 / 0.05 / 0.1 / 0.2 / 0.5 / 1.0 / 2.0 s

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Integration time	Automatic
Communication	
Maximum data rate	50 Hz (LAN), 20 Hz (Analog), 10 Hz (RS-232)
Inputs	Autozero, Start (IN), Error (either IN or OUT), 0-10 V Analog IN
Outputs	Error (either OUT or IN)
Analog outputs	1 x ± 2.5 V scalable, 20 bit
Control	Digital: LAN-DHCP, RS-232, remote connector Analog: wavelength control. Manual: front panel
Technical parameters	
GLP	Lamp operating hours
Display	LED
Ambient conditions	Temperature range: 4 - 40 °C, 39.2 - 104 °F Humidity: below 90 % noncondensing
General	
Power supply	External: input 100 - 240 V, output 24 V DC, 60 W
Dimensions	121 x 129 x 187 mm (W x H x D)
Weight	1.5 kg
Flowcells	
Flow cells are not included and must be ordered separately (see below)	

Analytical Flow Cells	
A4061	10 mm path, 1/16" connections, 10 μ L, stainless steel, max. flow 20, max. pressure 300 bar
A4042	3 mm path, 1/16" connections, 2 μ L, stainless steel, max. flow 50, max. pressure 300 bar
A4045	3 mm path, 1/16" connections, 2 μ L, PEEK, max. flow 50, max. pressure 30 bar
Preparative Flow Cells	
A4066	0.5 / 1.25 / 2 mm path, 1/8" connections, stainless steel, max. flow 1000, max. pressure 200 bar (Cell volumes for adjustable cells are: 0.50 mm = 1.7 μ L; 1.25 mm = 4.3 μ L; 2.00 mm = 6.8 μ L.)
A4068	0.5 / 1.25 / 2 mm path, 1/4" connections, stainless steel, max. flow 10000, max. pressure 200 bar. (Cell volumes: see above.)

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A4067	0.5 / 1.25 / 2 mm path, 1/8" connections, PEEK, max. flow 1000, max. pressure 100 bar. (Cell volumes: see above.)
A4069	0.5 mm path, 1/16" connections, stainless steel, max. flow 250, max. pressure 200 bar
A4095	0.5 mm path, 1/16" connections, PEEK, max. flow 250, max. pressure 100 bar
Analytical flow cells with double fiber optical connection	
A4074	10 mm path, 1/16" connections, 10 µL, stainless steel, max. flow 20, max. pressure 300 bar
A4044	3 mm path, 1/16" connections, 2 µL, stainless steel, max. flow 50, max. pressure 300 bar
A4047	3 mm path, 1/16" connections, 2 µL, PEEK, max. flow 50, max. pressure 30 bar
A4077	3 mm path, 1/16" connections, 0.7 µL, PEEK, max. flow 10, max. pressure 30 bar
Preparative flow cells with double fiber optical connection	
A4078	0.5 / 1.25 / 2 mm path, 1/8" connections, stainless steel, max. flow 1000, max. pressure 200 bar (Cell volumes: see above.)
A4079	0.5 / 1.25 / 2 mm path, 1/8" connections, PEEK, max. flow 1000, max. pressure 100 bar (Cell volumes: see above.)
A4081	0.5 / 1.25 / 2 mm path, 1/4" connections, stainless steel, max. flow 10000, max. pressure 200 bar (Cell volumes: see above.)
A4089	0.5 mm path, 1/16" connections, stainless steel, max. flow 250, max. pressure 200 bar
A4096	0.5 mm path, 1/16" connections, PEEK, max. flow 250, max. pressure 100 bar

Product Details

ADA00	AZURA UVD 2.1S UV Detector, 190 - 500 nm, variable single wavelength UV detector, without flow cell
ADA05	AZURA UVD 2.1S UV Detector, 190 - 500 nm, variable single wavelength UV detector, fiber optic connections, without flow cell.