

AZURA Diode Array Detector DAD 2.1L

The AZURA DAD 2.1L is a highly competitive diode array detector which combines high performance with easy handling at an affordable price. A wide range of easily exchangeable cartridge flow cells make this device the right choice for fast, standard analytical, semi-preparative and preparative separations with bio-inert or stainless steel wetted parts.

State-of-the-art total reflection flow cells (LightGuide technology) are available for this device providing maximum light throughput (due to total internal reflection) with minimal peak dispersion (due to the small cell volume) to guarantee an optimized S/N ratio. An optional fiber optics adapter offers the possibility to separate the flow cell spatially from the device and thus provides enhanced security for hazardous, explosive or toxic work processes, as well as protecting the device from leakages at high flow rates.



The newly developed optical unit and intelligent temperature management ensure maximum sensitivity combined with minimal baseline drift. Easy front access and improved safety features allow effortless lamp replacement, which facilitates maintenance and guarantees short downtimes.

The DAD 2.1L comes installed with a deuterium lamp which covers a wavelength range from 190 to 700 nm. This detector can be controlled with OpenLab® EZChrom and ClarityChrom® software, as well as from an optional touch display or Mobile Control (stand-alone operation), via LAN or through analog input/output, thus allowing it to be integrated into almost any LC system.

Key features

- Wide application range
- User friendly
- Large choice of flow cells
- High sensitivity
- Attractively priced
- Remote flow cells available (fiber optics)

Specifications

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

Detection	
Detector type	Diode array detector
Number of diodes	256
Pixel pitch	2 nm/diode
Detection channels	8 (Digital), 4 (Analog)

AZURA Diode Array Detector DAD 2.1L

Light source	Deuterium (D ₂) lamp with integrated GLP chip
Wavelength range	190 - 700 nm
Spectral bandwidth	< 8 nm at H _α line (FWHM), <i>Note: digital bandwidth 1 - 32 nm</i>
Wavelength accuracy	± 0.5 nm
Wavelength precision	± 0.1 nm
Wavelength verification	Internal holmium filter and deuterium lines
Noise	± 5 µAU at 254 nm
Drift	300 µAU/h at 254 nm
Linearity	> 1.6 AU at 274 nm
Time constants	0.0 / 0.1 / 0.2 / 0.5 / 1.0 / 2.0 / 5.0 / 10.0 s
Flow cell	not included (see Accessories / Spare parts)
Integration time	automatic (5-1000 ms)
Communication	
Maximum data rate	100 Hz (LAN), 12.5 Hz (Analog)
Inputs	Error (IN), Start (IN), Autozero
Outputs	Events 1 - 2, Error (OUT), + 5 V, Valve + 24 V, Valve (OUT)
Analog outputs	4 x 0 - 5 V, 16 bit
Control	Digital: LAN-DHCP, remote connector Manual: Mobile Control or Control Unit (optional)
Programming	Wake up
Technical parameters	
GLP	Detailed report including lamp recognition, operating hours, lamp operating hours, number of lamp ignitions
Display	Mobile Control or Control Unit (optional)
Ambient conditions	Temperature range: 4 - 40 °C, 39.2 - 104 °F Humidity: below 90 % noncondensing
General	
Power supply	100 - 240 V, 50 - 60 Hz, 75 W
Dimensions	361 x 158 x 523 mm (W x H x D)
Weight	12.2 kg
Leak sensor	Yes
Flowcells	
Flow cells are not included and must be ordered separately (see below)	

AZURA Diode Array Detector DAD 2.1L

Flow Cells	
AMC19	Standard KNAUER LightGuide Flow Cell Cartridge, 10 mm path length, 1/16", 2 µl volume, biocompatible, for AZURA DAD 6.1L
AMD59	High Sensitivity KNAUER LightGuide Flow Cell Cartridge 50 mm path length, 1/16", 6 µl volume, biocompatible, for AZURA DAD 6.1L
AMKX8	Cartridge Fiber Optics Adapter for AZURA DAD 6.1L

Product Details

ADC01	AZURA UV/VIS Diode Array Detector DAD 2.1L, without flow cell
-------	---