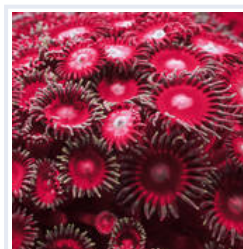
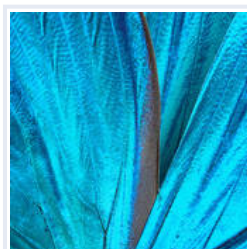
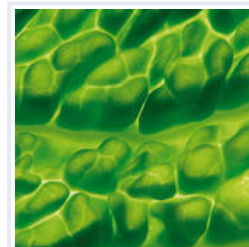


# AZURA Detector DAD 2.1L

Diode array detector

Article Nr.: ADC01



AZURA 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 for maximum sensitivity combined with minimal baseline drift.

Furthermore, easy frontal access and improved safety features enable effortless lamp replacement. This eases 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, ClarityChrom®, Chromeleon® and PurityChrom® software, as well as with the Mobile Control software (stand-alone operation), via LAN or through analog input/output, allowing it to be integrated into almost any LC system.

## Key features





- wide application range
- remote flow cells available (fiber optics)
- user friendly
- attractively priced
- impressive sensitivity

## Details



<b>Detection</b>	
Detector type	Diode array detector
Number of diodes	256
Pixel pitch	2 nm/diode
Detection channels	8 (Digital) 4 (Analog)
Light source	Deuterium (D <sub>2</sub> ) lamp with integrated GLP chip
Wavelength range	190 - 700 nm
Spectral bandwidth	< 10 nm at H <sub>α</sub> line (FWHM) <i>Note: digital bandwidth 1 - 32 nm</i>
Wavelength accuracy	± 1 nm
Wavelength verification	Internal holmium filter and deuterium lines
Noise	± 5 μAU at 254 nm
Drift	400 μAU/h at 254 nm
Linearity	> 2.0 AU at 274 nm
Time constants	0.00 / 0.01 / 0.02 / 0.05 / 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
<b>Communication</b>	
Maximum data rate	100 Hz (LAN) 12.5 Hz (Analog)
Interfaces	LAN (RJ-45), USB (service only), multi-pin connector, analog (RCA cinch connector)
Control	Mobile Control, software, event control, analog, terminal protocol
Inputs	Error (IN), Start (IN), Autozero
Outputs	Events 1 - 2 (Relay and TTL compatible, respectively), Error (OUT), + 5 V, Valve + 24 V, Valve (OUT)
Analog outputs	4 x 0 - 5 V, 16 bit, offset adjustable
<b>Technical parameters</b>	
GLP	Detailed report including lamp recognition, operating hours, lamp operating hours, number of lamp ignitions
Display	Mobile Control (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
Note	Flow cells are not included and must be ordered separately (see Accessories / Spare parts)






## Downloads

	AZURA Detector DAD 6.1L user manual	AZURA Detector DAD 6.1L user manual, V6700	English
	AZURA Detektor DAD 6.1L, DAD 2.1L, MWD 2.1L Benutzerhandbuch	AZURA Detektor DAD 6.1L, DAD 2.1L, MWD 2.1L Benutzerhandbuch, V6700	Deutsch
	AZURA Detektor DAD 6.1L, DAD 2.1L, MWD 2.1L Benutzerhandbuch	AZURA Detektor DAD 6.1L, DAD 2.1L, MWD 2.1L Benutzerhandbuch, V6700	Deutsch
	List of supported devices in chromatography data systems	Device support in KNAUER CDS / KNAUER device support in 3rd party software	English



## Accessories / Spare parts

	Mobile Control	Software controlling AZURA devices/ system including 10" tablet	A9607
	Deuterium Lamp	for AZURA UVD 2.1S, UVD 2.1L, DAD 2.1L, MWD 2.1L and Smartline 2520 detectors	A5193

	Tool kit AZURA	tool kit for systems with PEEK or precut capillaries	A1033
	Accessory kit AZURA DAD 6.1L, DAD 2.1L, MWD 2.1L	included in shipkit	FDC
	Accessory kit AZURA large devices	cable kit for all devices with footprint "L" included in shipkit	FZA02
	Standard KNAUER LightGuide UV Flow Cell Cartridge	10 mm path length, 1/16", 2 µl volume, 50 bar	AMC19XA
	High Sensitivity KNAUER LightGuide UV Flow Cell Cartridge	50 mm path length, 1/16", 6 µl volume, 50 bar, biocompatible	AMD59
	Analytical KNAUER PressureProof UV Flow Cell Cartridge	10 mm path length, 1/16", 10 µl volume, 300 bar, biocompatible	AMC38
	Semi-preparative KNAUER PressureProof UV Flow Cell Cartridge	3 mm path length, 1/16", 2 µl volume, 300 bar, biocompatible	AMB18
	Fiber Optics Adapter Kit	for AZURA DAD 6.1L, DAD 2.1L, MWD 2.1L detectors	AMKX8KIT
	Analytical UV Flow Cell	10 mm path length, 1/16", 10 µl volume, 300 bar, stainless steel, fiber optic connectors	A4074
	Semi-preparative UV Flow Cell	3 mm path length, 1/16", 2 µl volume, 300 bar, stainless steel, fiber optic connectors	A4044
	Semi-preparative UV Flow Cell	3 mm path length, 1/16", 2 µl volume, 30 bar, biocompatible, fiber optic connectors	A4047
	Preparative UV Flow Cell	0.5 mm path length, 1/16", 3 µl volume, 200 bar, stainless steel, fiber optic connectors	A4089
	Preparative UV Flow Cell	0.5 mm path length, 1/16", 3 µl volume, 100 bar, biocompatible, fiber optic connectors	A4096

	Preparative UV Flow Cell	variable path length and variable volume, 1/8", 200 bar, stainless steel, fiber optic connectors	A4078
	Preparative UV Flow Cell	variable path length and variable volume, 1/8", 100 bar, biocompatible, fiber optic connectors	A4079
	Preparative UV Flow Cell	variable path length and variable volume, 1/4" angular connections, 200 bar, stainless steel, fiber optic connectors	A4081
	Preparative UV Flow Cell	variable path length and variable volume, 1/4" straight connections, 200 bar, stainless steel, fiber optic connectors	A4081V2
	Cartridge Test Cell	for AZURA DAD 6.1L, DAD 2.1L, MWD 2.1L detectors	AMLX8

## Related products

	AZURA Detector DAD 6.1L	190 - 1000 nm, diode array detector	ADC11
	AZURA Detector MWD 2.1L	190 - 700 nm, multiwavelength detector	ADB01

Technical data are subject to change without notice.

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