

## AZURA Diode Array Detector DAD 6.1L

The next generation of KNAUER DAD detectors begins with the new AZURA DAD 6.1L. It features a novel light path and flow cell architecture with improved handling and excellent performance. The frontal lamp and cell change ensures easy and secure maintenance while the temperature controlled optical bench minimizes signal drift.

The wide selection of flow cells allows the DAD 6.1L to be easily adapted to your needs. An optional fiber optics adaptor offers the possibility to separate the flow cell spatially from the device and thus providing enhanced security for hazardous, explosive or toxic work processes.



The DAD 6.1L comes installed with high brightness deuterium and tungsten halogen lamps which cover a wavelength range from 190 to 1000 nm. The detector can be controlled with OpenLab® EZChrom and ClarityChrom® software, as well as from an optional touch display (stand-alone operation), via LAN or through analog input/output, thus allowing it to be integrated into almost any LC system.

### Key features

- User friendly
- Wide range of flow cells
- High sensitivity
- Attractively priced
- Data acquisition rate up to 100 Hz

### Specifications

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

Detection	
<b>Detector type</b>	Diode array detector
<b>Number of diodes</b>	1024
<b>Pixel pitch</b>	0.8 nm/diode
<b>Detection channels</b>	8 (Digital) 4 (Analog)
<b>Light source</b>	High brightness deuterium (D <sub>2</sub> ) lamp and halogen lamp with integrated GLP chip
<b>Wavelength range</b>	190 - 1000 nm
<b>Spectral bandwidth</b>	< 3.5 nm at H <sub>α</sub> line (FWHM), <i>Note: digital bandwidth 1 - 32 nm</i>

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<b>Wavelength accuracy</b>	± 1 nm
<b>Wavelength verification</b>	Internal holmium filter and deuterium lines
<b>Noise</b>	± 3.5 µAU at 254 nm
<b>Drift</b>	300 µAU/h at 254 nm
<b>Linearity</b>	> 2.0 AU at 274 nm
<b>Time constants</b>	0.0 / 0.1 / 0.2 / 0.5 / 1.0 / 2.0 / 5.0 / 10.0 s
<b>Flow cell</b>	not included (see Accessories / Spare parts)
<b>Integration time</b>	automatic
<b>Communication</b>	
<b>Maximum data rate</b>	100 Hz (LAN) 12.5 Hz (analog)
<b>Inputs</b>	Error (IN), Start (IN), Autozero
<b>Outputs</b>	Events 1 - 2, Error (OUT), + 5 V, Valve + 24 V, Valve (OUT)
<b>Analog outputs</b>	4 x 0 - 5 V, 16 bit
<b>Control</b>	Digital: LAN-DHCP, remote connector Manual: Mobile Control or Control Unit (optional)
<b>Programming</b>	Wake up
<b>Technical parameters</b>	
<b>GLP</b>	Detailed report including lamp recognition, operating hours, lamp operating hours, number of lamp ignitions
<b>Display</b>	Mobile Control or Control Unit (optional)
<b>Ambient conditions</b>	Temperature range: 4 - 40 °C, 39.2 - 104 °F Humidity: below 90 % noncondensing
<b>General</b>	
<b>Power supply</b>	100 - 240 V, 50 - 60 Hz, 75 W
<b>Dimensions</b>	361 x 158 x 523 mm (W x H x D)
<b>Weight</b>	13.8 kg
<b>Leak sensor</b>	Yes
<b>Flow cells</b>	
Flow cells are not included and must be ordered separately, see below	

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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

ADC11	AZURA UV/VIS Diode Array Detector DAD 2.1L, without flow cell
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