

## AZURA Multiwavelength UV/VIS Detector MWD 2.1L

The MWD 2.1L is an 8 channel, sensitive multiwavelength detector combining 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. The easy front access and improved safety features allow effortless lamp replacement, which facilitates maintenance and guarantees short downtimes. The device is also easily upgradable to a diode array detector.

The MWD 2.1L comes installed with a deuterium lamp which covers a wavelength range from 190 to 700 nm. The detector can be controlled with OpenLab® EZChrom and ClarityChrom® software, as well as from an optional touch display (for 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
- 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      | Multiwavelength detector                                  |
| Detection channels | 8 (digital), 4 (analog)                                   |
| Light source       | Deuterium (D <sub>2</sub> ) lamp with integrated GLP chip |
| Wavelength range   | 190 - 700 nm  |

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|  |   |
|--|---|
| Spectral bandwidth   | < 8 nm at H <sub>0</sub> 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)   |
| <b>Communication</b>   |   |
| 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<br>Manual: Mobile Control, Control Unit (optional)                      |
| Programming  | Wake up   |
| <b>Technical parameters</b>  |   |
| GLP  | Detailed report including lamp recognition, operating hours, lamp operating hours, number of lamp ignitions |
| Display  | Optional Mobile Control or Control Unit   |
| Ambient conditions   | Temperature range: 4 - 40 °C, 39.2 - 104 °F<br>Humidity: below 90 % noncondensing                           |
| <b>General</b>   |   |
| 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   |
| <b>Flowcells</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

|       |   |
|-------|---|
| ADB01 | AZURA Multiwavelength UV/VIS Detector MWD 2.1L, without flow cell |
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