

Science with Passion



Variable Wavelength Detector VWD 2.1L

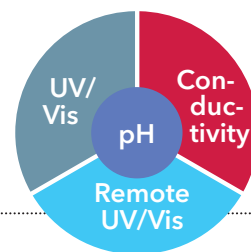
Smart, compact, and flexible... 3-in-1 integrated design.

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Expand the capabilities of your detector unit with the VWD 2.1L - an innovative solution that can measure three parameters with a single, space-saving device: UV/Vis-absorbance, conductivity and pH.

- **Simultaneous multi-channel UV/Vis detection** - monitor up to 4 wavelengths between 190 and 900 nm
- **KNAUER's patented CombiLight flow cells** for simultaneous detection of UV/VIS, conductivity and eluent temperature with zero delay
- Built-in support of **pH** measurement via pH glass electrode
- Seamless switch to fiber optic technology for remote flow cells
- **Smart device** - Automatic recognition of signal unit and CombiLight flow cell, including GLP data logging
- **Maintenance made easy** - Quick access from the front for lamp replacement without dismantling the system
- **Biocompatible** flow cells available

Technical data



Detection

UV measurement	4 UV channels
Wavelength range:	190-900 nm
Accuracy:	± 1.5 nm
Conductivity measurement	Available in combination with CombiLight flow cell
Range:	0.1-1000 mS/cm
Accuracy:	± 0.5 mS/cm or ± 2 % whichever is greater (0.1-200 mS/cm)
Eluent temperature	Available in combination with CombiLight flow cell
Range:	1-99 °C
Accuracy:	± 1.5 °C (4-40 °C)
pH measurement	Available in combination with pH electrode
Range:	0-14
Accuracy:	± 0.1 (pH 2-12)
Light source	Deuterium (D ₂) and halogen lamp with integrated GLP chip
Spectral bandwidth	6 nm at H α line
Noise	± 0.0075 mAU ± 0.0125 mAU
Drift	0.2 mAU/h 0.4 mAU/h
Linearity	> 2.5 AU
Maximal data rate	1 UV channel: 100 Hz 4 UV channel: 5 Hz (DI=100 nm)
Flow cell	Must be ordered separately
Time constants	0.01 / 0.02 / 0.05 / 0.1 / 0.2 / 0.5 / 1.0 / 2.0 / 5.0 / 10.0 s
Integration time	Automatic
Leak sensor	yes

Communication

Inputs	Error-In, Start-In, AutoZero
Outputs	Events 1-3, Error-out, Start-out
Analog outputs	Not available
Control via software	PurityChrom 6, ClarityChrom MobileControl
Interfaces	2x LAN (for software control), BNC (for pH electrode), USB (for service), multi-pin connector (for Events)



think **LC**. think **KNAUER**.

<https://www.knauer.net/detection-uv-vis-detectors>

(U)HPLC • Prep. LC • FPLC • SMB • LNP • Osmometry

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