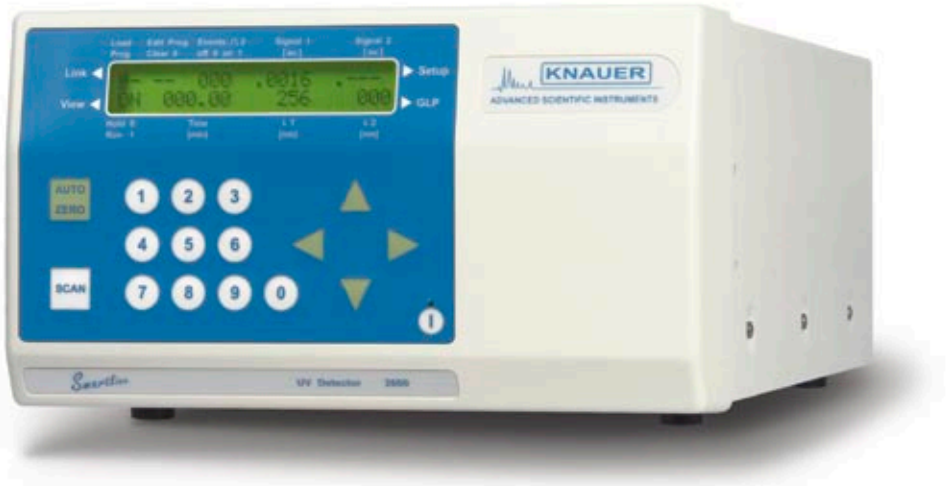
KNAUER

Smartline

► UV Detector 2600



Multi-wavelength spectrophotometer based on PDA technology

The Smartline UV Detector 2600 is an outstanding multi-wavelength detector with the spectral scan speed and robustness of a diode array detection system.

Optimized detection – Simultaneous detection at up to 4 different wavelengths allows for better adjustment to the substances' absorption maxima for increased selectivity and sensitivity.

More confidence – The spectral scan feature enables peak purity testing within a selectable wavelength range for more meaningful analysis results.

Low noise and drift values – Optimized optical components, low vibration design and high quality electronics for sensitive detection and stable results.

GLP – Automatic wavelength verification via internal holmium oxide filter and detailed report functions for GLP compliance.

Application flexibility – A wide variety of flow cells including biocompatible versions enables the use of the Smartline UV Detector 2600 at flow rates ranging from microflow to up to 10 l/min per minute.

Specialized versions – Available with either deuterium lamp for measurements in the UV wavelength range or tungsten-halogen lamp for the VIS range. The measurement cell can also be optionally equipped with fiber optical connections.

Easy maintenance – Both the measurement cell and lamp can be easily exchanged from the front without having to open the detector. The no-moving-parts PDA design is practically maintenance-free.

Advanced functions – multi-wavelength operation, 2-D and 3-D chromatograms*, peak purity, spectra libraries*, built-in solvent recycling feature to control an external solenoid valve

* requires KNAUER ChromGate® or ClarityChrom® software

Technical data

Detector type	diode array spectrophotometer	
Number of diodes	256 (1.25 nm/diode)	
Channels	4 (data recording)	
Model	**UV Detector 2600**	**Detector 2600 VIS**
Light source	deuterium	tungsten-halogen
Wavelength range	190 – 500 nm	430 – 710 nm
Wavelength accuracy	≤ 1 nm (254 nm)	≤ 1 nm
Wavelength precision	≤ 0.5 nm (254 nm)	≤ 0.5 nm
Noise (ASTM E1657)	≤ 1×10^{-5} AU	≤ 2×10^{-5} AU
Drift (ASTM E1657)	≤ 5×10^{-4} AU/h	≤ 3×10^{-5} AU/h
Band width	4 – 25 nm (selectable)	4 – 25 nm (selectable)
Spectra scan	max. 10 scans per second	max. 10 scans per second
Time constants	0.1/0.2/0.5/1.0/2.0/5.0/10.0 s	0.1/0.2/0.5/1.0/2.0/5.0/10.0 s
Fiber optics version	available	available
Signal options	inversion, signal ratios (λ-1/λ-2 and vice versa)	
Analog output (integrator)	4 x ± 1 V (scalable), 20 bit	
Level / event outputs	allow e.g. stand-alone solvent recycling just with an optional solenoid valve	
Control	RS-232, remote control strip, touchpad	
Programming	max. 20 programs	
GLP report	detailed, including lamp operation time, lamp ignitions	
Wavelength verification	automatic via internal holmium oxide filter	
Display	LCD, 2 lines, 24 characters each	
Power supply	voltage range: 90 – 260 V, 47 – 63 Hz, 70 W	
Dimensions	226 x 135 x 410 mm (W x H x D)	
Weight	5.7 kg	

Ordering information

Order no.	**Photometric detection system**[1]
A5200	Smartline UV Detector 2600
A5210	Smartline UV Detector 2600, fiber optics version
A5201	Smartline Detector 2600 VIS
A5211	Smartline Detector 2600 VIS, fiber optics version
	[1] flow cell to be ordered separately
	Analytical flow cells
A4061	10 mm, 10 µl, stainless steel, heat exch., < 50 ml/min
A4042	3 mm, 2 µl, stainless steel, < 50 ml/min
	Preparative flow cells
A4069	0.5 mm, stainless steel, 1/16'', < 250 ml/min
A4066	0.5/1.25/2 mm, stainless steel, 1/8'', < 1 l/min
A4068	0.5/1.25/2 mm, stainless steel, 1/4'', < 10 l/min

Order no.	**U-Z View™ micro flow cells**
A4091	8 mm, fused silica, 1/16''
A4092	8 mm, fused silica, 280 µm
	Capillary electrophoresis cell
A4097	1 mm, stainless steel, 280 µm
	Solvent recycling valve
A0296-1	3-port solenoid valve, flow rate up to 50 ml/min

All flow cells mentioned above are also available in PEEK (except models with 10 mm path length and 1/4'' connectors).

Technical data are subject to change without notice.

Visit www.knauer.net for details on complete HPLC systems, HPLC columns, and osmometers.

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