UV/Vis - Detector S 4245 and S 4250

The **UV/Vis - Detektors S 4245** und **S 4250** are variable wavelength UV/Vis detectors for routine analysis and sophisticated research. The dual lamp design offers a wavelength range of 190 – 900 nm with a low baseline noise. The front - accessible flow cell can easily be exchanged, as can be the lamps which are accessible through a side panel in the instrument housing.

Integrated Wavelength Program

The **UV/Vis - Detektoren S 4245** und **S 4250** features a wavelength program to change the selected wavelength over time. With this feature the optimum wavelength can be selected for each analyzed substance according to its retention time.

Integrated Peak Detector

The integrated Peak Detector works as a basic fraction collector. The peak detection level can be freely programmed for peak start and peak end to enhance the collection purity. An integrated 24V output for switching a solenoid valve is used for the fraction collection, which is automatically operated with a selectable time delay.

Optional - Dual - Wavelength

The **UV/Vis - Detektors S 4245** und **S 4250 are** available with an optional second wavelength. This feature enhances the Wavelength Program feature that you can measure 2 different wavelengths at the same time. A second D/A converter output comes with this option to keep the system flexible to be used with any data acquisition software available.

Optional - ONLINE - SCAN

Another option for the **UV/Vis - Detectors S 4245** und **S 4250** is the Online Scan. With the Online Scan whole spectrum information can be gathered at a certain time. This scan information is stored internally and can be accessed at any time. The Online Scan is a good alternative to a full UV PDA detector.

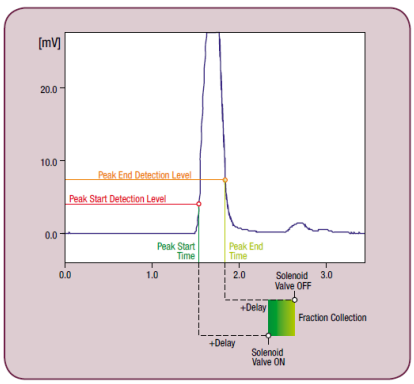

Figure: S 4245 / S4250Peak detection

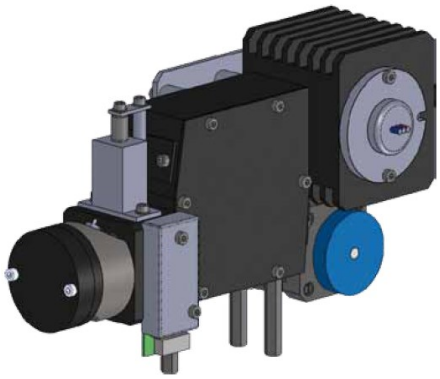

Figure: Optical module S 4245 / S 4250

Schambeck SFD GmbH, Drieschweg 13A, D - 53604 Bad Honnef/Germany, Phone: +49 2224 9239 - 0
Fax: +49 2224 9239 - 20, mail: info@schambeck-sfd.com, Internet: www.schambeck-sfd.com

Technical Specifications*

Wetted Materials:	Stainless Steel / PEEK*
Baseline Noise:	± 1 x 10-5 AU (@240 nm, 1 sec. Rise time)
Baseline Drift:	2 x 10-4 AU/h
Wavelength Range:	190 – 900 nm
Wavelength Accuracy:	± 2 nm
Linearity	> 2.0 AU
Light source:	Deuterium Lamp, Tungsten Lamp
Flow cell volume:	Micro 0,6 µl, 3,0mm flow path
	Analytical 7,9 µl, 10,0mm flow path
	Preparative 2,7 µl, 1,5mm flow path
Wavelength Program:	Programmable, 10 Steps
Analog Output:	1 x 1 V (optional: 2 x 1V)
Control Features:	Internal Peak Detector with +24 V solenoid switching output
Dimensions:	**S 4245** 310 x 165 x 478 mm (B x H x T)
	S 4250 396 x 165 x 478 mm (B x H x T)
Power Supply:	100 - 250 V (47—63 Hz)

*abhängig von der Gerätekonfiguration

Order Information UV/Vis - Detector S 4245 and S 4250

Part-No.:	Description:
UV/Vis 4245	UV/Vis Detector S 4245, 1 Channel
UV/Vis 4245-2	UV/Vis Detector S 4245, 2 Channels
UV/Vis 4245-2S	UV/Vis Detector S 4245, 2 Channels with SCAN Option
UV/Vis 4250	UV/Vis Detector S 4250, 1 Channel
UV/Vis 4250-2	UV/Vis Detector S 4250, 2 Channel
UV/Vis 4250-2S	UV/Vis Detector S 4250, 2 Channels with SCAN Option
UV/VIS—1032009	S 4245 / S 4250 Flow cell, analytical, stainless Steel
UV/VIS—1032010	S 4245 / S 4250 Flow cell, analytical, PEEK
UV/VIS—1032011	S 4245 / S 4250 Flow cell, micro, stainless Steel
UV/VIS—1032012	S 4245 / S 4250 Flow cell, micro, PEEK
UV/VIS—1032013	S 4245 / S 4250 Flow cell, semi-preparative, stainless Steel
UV/VIS—1032014	S 4250 / S 4250 Flow cell, semi-preparative, stainless Steel

Order Information Spare Parts UV/Vis - Detector S 4245 and S 4250

Part-No.:	Description: ,
47– 4010001	Tungsten Lamp for S 4245 / S 4250, preadjusted
47– 4010002	Deuterium Lamp for S 4245 / S 4250, preadjusted

Schambeck SFD GmbH, Drieschweg 13A, D - 53604 Bad Honnef/Germany, Phone: +49 2224 9239 - 0
Fax: +49 2224 9239 - 20, mail: info@schambeck-sfd.com, Internet: www.schambeck-sfd.com