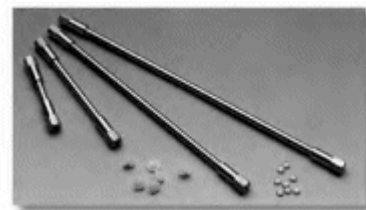


HPLC Detector Based on Diode-Array Technologie

Partner

SunChrome is in the analytical business for more than a decade and offers a complete modular designed HPLC system. The development and manufacturing of the detector head was respectively is outsourced to tec5 AG.



Application

For the high-pressure liquid chromatography the liquid to be analyzed has to be squeezed through a narrow and long path to allow an interaction length as long as possible due to the low absorption of the features to be measured. Fast and precise data acquisition for a reasonable price was the goal for the development of the detector head.

Spectrometer System



The SpectraFlow 600 is a diode array detector (DAD) based detector head. The Zeiss spectrometer module used features a very high reproducibility due to its monolithic design. Without any moving part it has an outstanding stability. Together with the tec5 operating electronics with 16 bit analog-to-digital converter it shows a very high dynamic range of up to 15 bit. A Deuterium lamp is used as an light source. All optical components are coupled by means of light guides.

Technical Data

Spectral range:	200 - 400 nm, optional 200 - 620 nm and 200 - 1015 nm
Spectrale resolution:	0.8 nm/pixel; 3 nm effectiv (Rayleigh)
Wavelength accuracy:	< 0.2 nm
Wavelength reproducibility:	< 0.1 nm
Base line noise:	+/- better 2.5×10^{-5} AU at 250 nm
Optical path length cell:	10 mm
Cell volume:	8 μ l, other cells on request
Dimensions:	245 x 170 x 400 mm

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