

Smartline HPLC Multi-Wavelength UV Detector 2600

Overview

The Smartline HPLC Detector 2600 is a completely new multi-wavelength detector based on diode array technology at an affordable price.

Multiple Wavelengths

Up to 4 wavelengths can be measured simultaneously in real time on four freely-programmable detector channels.

GLP Functions

The Smartline HPLC Detector 2600 provides GLP functions such as: detailed reports, displaying the total hours of lamp operation, total number of lamp ignitions, and more.

Fiber-Optic Options

The use of fiber-optic guides permits the spacial separation of the detector and flow cell, which makes operation with externally thermostatted cells or in hazardous areas possible. Fiber-optic guides are available in standard or customised lengths.

Large Selection of Flow Cells

A large range of flow cells, from nano-HPLC cells for flowrates above 100 nL/minute to preparative cells for flowrates up to 10000 ml/minute, offers maximum flexibility and permits use of this detector for practically all HPLC applications.

Service Friendly

The entire optical unit slides out of the detector for easy exchange of lamps etc. The housing does not need to be removed thus making system servicing fast and easy.

Compact

The HPLC Detector 2600 has been designed to fit directly into the Smartline instrument family as part of a system tower. The modular design of the detector means that it can also be used as a completely separate HPLC module and its small size allows it to be installed practically anywhere.



Specifications

Detector design	Diode array
Number of diodes	256
Pixel resolution	1.25 nm
Scan speed	max. 10 scans / second
Wavelength range	190 - 510 nm
Wavelength accuracy	Better than ± 1 nm
Wavelength verification	Automatic via internal holmium oxide filter
Bandwidth	4 - 25 nm, selectable
Light source	Deuterium lamp as standard, optional Tungsten-Halogen lamp
Drift	$= 5 \times 10^{-4}$ AU/h, ASTM E1657-94
Noise	$= 1 \times 10^{-5}$ AU, ASTM E1657-94
Integrator output	Four times ± 1 V scalable, 20 bit
Data acquisition	Analogue via Integrator output
Display	LCD, 2 x 24 characters

Time constant	0.1; 0.2; 0.5; 1.0; 2.0; 5.0: 10.0 seconds
Remote control	Remote via RS-232 interface, analogue inputs for autozero, start program and lamp off, analogue outputs for error conditions (The detector can be controlled via Geminix Software.)
Local control	Touchpad
GLP	Recording of total running time and number of lamp ignitions.
Features	Programmable in Stand-alone mode, 20 programs
Dimensions	226 x 135 x 390 mm (W x H x D)
Weight	5.7 kg
All specifications may be subject to change for technical reasons.	

Ordering Information

A5200	Smartline UV Detector 2600 without flow cell, with accessories for operation without fiber-optics
A5210	Smartline UV Detector 2600 without flow cell, with accessories for operation with fiber-optics
Analytical Flow Cells	
A4061	10 mm path, 1/16" connections, 10 µL, stainless steel, max. flow 20, max. pressure 300 bar
A4042	3 mm path, 1/16" connections, 2 µL, stainless steel, max. flow 50, max. pressure 300 bar
A4045	3 mm path, 1/16" connections, 2 µL, PEEK, max. flow 50, max. pressure 30 bar
Preparative Flow Cells	
A4066	0.5 / 1.25 / 2 mm path, 1/8" connections, stainless steel, max. flow 1000, max. pressure 200 bar (Cell volumes for adjustable cells are: 0.50 mm = 1.7 µL; 1.25 mm = 4.3 µL; 2.00 mm = 6.8 µL.)
A4068	0.5 / 1.25 / 2 mm path, 1/4" connections, stainless steel, max. flow 10000, max. pressure 200 bar (Cell volumes for adjustable cells are: 0.50 mm = 1.7 µL; 1.25 mm = 4.3 µL; 2.00 mm = 6.8 µL.)
A4067	0.5 / 1.25 / 2 mm path, 1/8" connections, PEEK, max. flow 1000, max. pressure 100 bar (Cell volumes for adjustable cells are: 0.50 mm = 1.7 µL; 1.25 mm = 4.3 µL; 2.00 mm = 6.8 µL.)
A4069	0.5 mm path, 1/16" connections, stainless steel, max. flow 250, max. pressure 200 bar
A4095	0.5 mm path, 1/16" connections, PEEK, max. flow 250, max. pressure 100 bar
Analytical flow cells with double fiber optical connection	
A4074	10 mm path, 1/16" connections, 10 µL, stainless steel, max. flow 20, max. pressure 300 bar
A4044	3 mm path, 1/16" connections, 2 µL, stainless steel, max. flow 50, max. pressure 300 bar
A4047	3 mm path, 1/16" connections, 2 µL, PEEK, max. flow 50, max. pressure 30 bar
A4077	3 mm path, 1/16" connections, 0.7 µL, PEEK, max. flow 10, max. pressure 30 bar

Preparative flow cells with double fiber optical connection	
A4078	0.5 / 1.25 / 2 mm path, 1/8" connections, stainless steel, max. flow 1000, max. pressure 200 bar (Cell volumes for adjustable cells are: 0.50 mm = 1.7 µL; 1.25 mm = 4.3 µL; 2.00 mm = 6.8 µL.)
A4079	0.5 / 1.25 / 2 mm path, 1/8" connections, PEEK, max. flow 1000, max. pressure 100 bar (Cell volumes for adjustable cells are: 0.50 mm = 1.7 µL; 1.25 mm = 4.3 µL; 2.00 mm = 6.8 µL.)
A4081	0.5 / 1.25 / 2 mm path, 1/4" connections, stainless steel, max. flow 10000, max. pressure 200 bar (Cell volumes for adjustable cells are: 0.50 mm = 1.7 µL; 1.25 mm = 4.3 µL; 2.00 mm = 6.8 µL.)
A4089	0.5 mm path, 1/16" connections, stainless steel, max. flow 250, max. pressure 200 bar
A4096	0.5 mm path, 1/16" connections, PEEK, max. flow 250, max. pressure 100 bar
Spares and Accessories	
A0895	RS232 cable for serial PC-interface
A1447	1 lens, 1 seal for analytical flow cells
A1448	1 lens, 1 seal for preparative flow cells
A1131	Repair kit for analytical flow cells, 10mm
A1475	Repair kit for analytical flow cells, 3mm
A1132	Repair kit for preparative flow cells