

Variable Wavelength UV-VIS Detector for HPLC.

S-3702



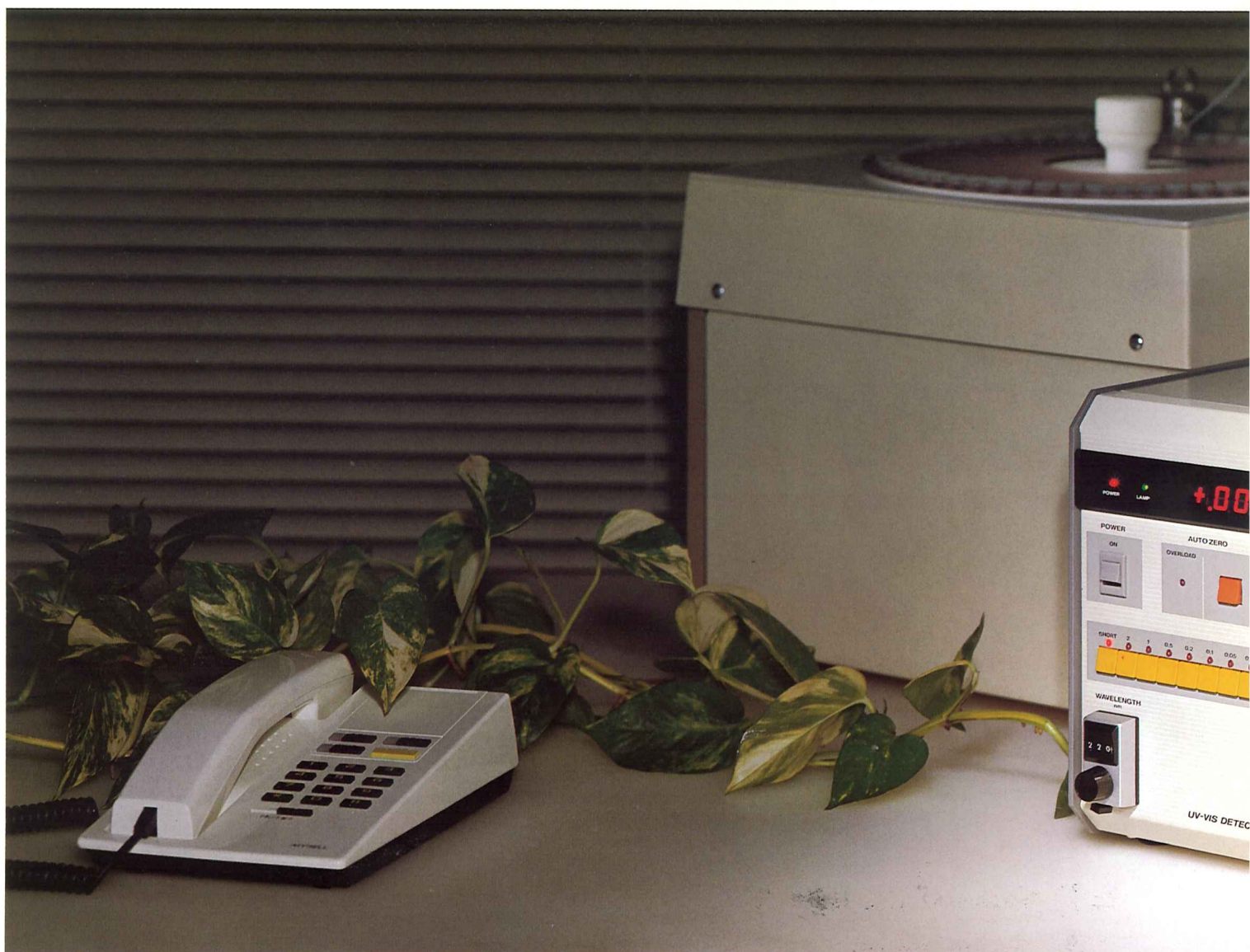
Soma

Variable Wavelength UV-VIS Detector for HPLC **S-3702**

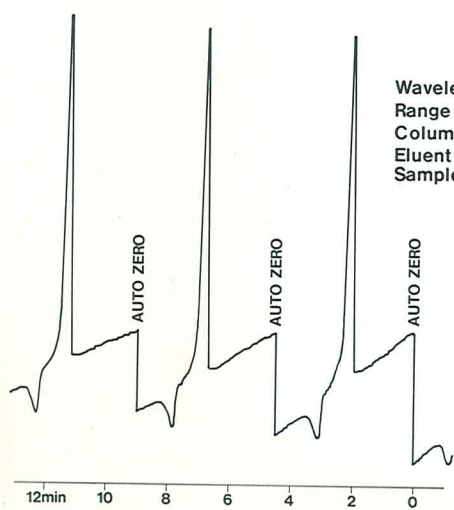
To respond to increasing technology and laboratory automation, SOMA OPTICS introduces a new price and performance standard for UV-VIS detectors. The S-3702 is a compact instrument which preserves precious laboratory space. Incorporated in its design are electronics enabling the S-3702 to interface directly with data stations, auto sample injectors and fraction collectors. This feature provides for automatic baseline correction, critical for continuous, unattended operation in today's modern laboratories.

Features

- Continuously variable: Simple controls allow for easy selection of any wavelength from 190-600nm.
- Auto zero: Microprocessor controlled electronics allows for automatic baseline correction vital to continuous unattended operation. A manual push button auto zero is also standard.
- Digital display: State of the art technology incorporates a 4 digit led which displays absorbance as well as sample and reference energy to insure optimum lamp efficiency.
- Easy operation: Handy touch controls select any of 9 sensitivity settings to 0.005 AUFS. The cassette type flow cell design makes changes for microbore or preparative applications quick and uncomplicated. The new lamp holder makes changing the lamp a simple procedure.
- Reliable: The experience gained from manufacturing hundreds of detectors can be found in every S-3702. Rugged housings and sophisticated electronics coupled with a stringent quality control program insure that each instrument provides trouble free operation and maximum performance.

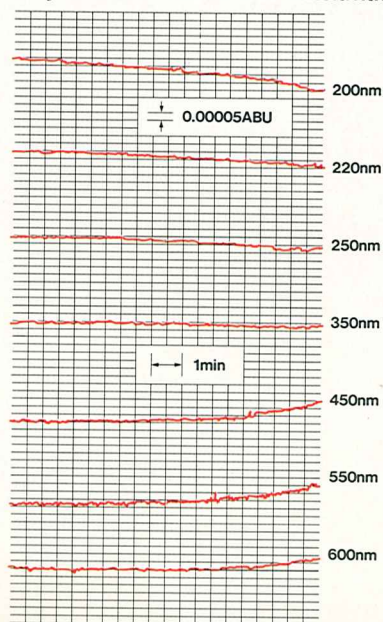


Auto-zero (with auto-sampler)

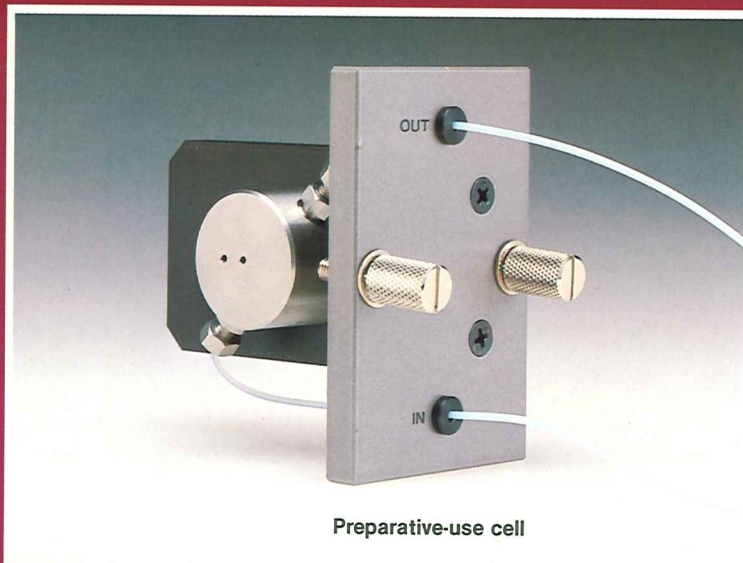
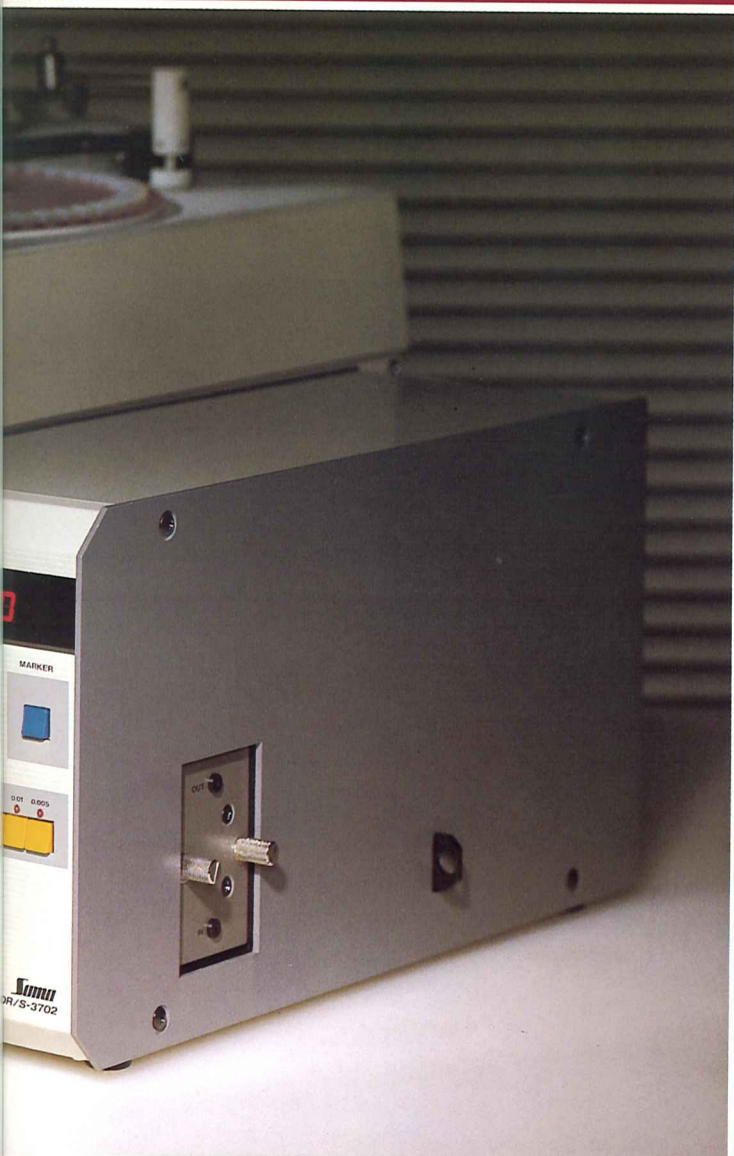


Wavelength 250nm
 Range 0.01
 Column 4 ϕ \times 150mm, ODS
 Eluent 80%MeOH/20%H₂O
 Sample Benzene

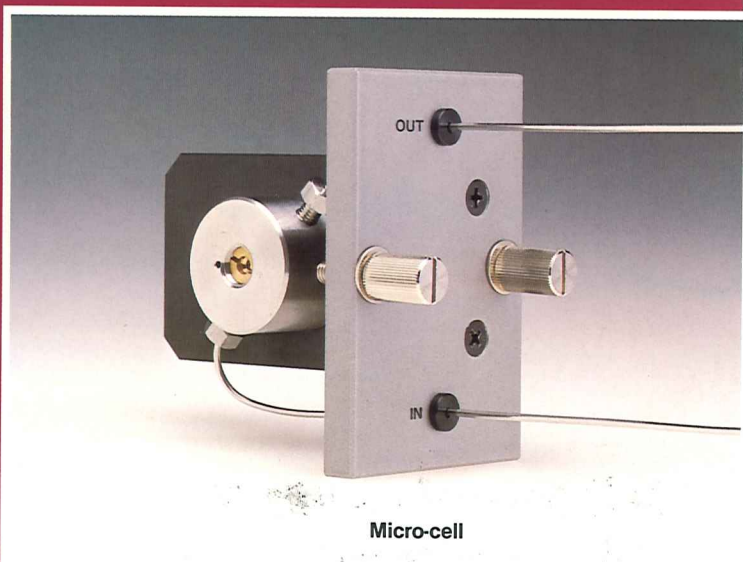
Stability of baseline at various sensitivities



Range 0.005
 Cell Air
 Response 0.5



Preparative-use cell



Micro-cell



Specifications

Wavelength range: 195 to 600nm
 (A filter is used at wavelength above 400nm)
 Photometric system:
 Double beam system
 Optical system: Monk-Gillieson-type
 Grating: 1,200 l/mm
 Wavelength accuracy: ± 2 nm
 Wavelength reproducibility: ± 0.5 nm
 Spectral band width: 7 nm
 Light source: Deuterium Lamp
 Receptor: Silicon photodiode
 Flow cell: Cassette type
 Capacity: $8 \mu\text{l}$
 Optical length: 10 mm
 Max. in-cell pressure: 50 kg/cm^2
 Ranges: 9 ranges
 0.005, 0.01, 0.02, 0.05, 0.1
 0.2, 0.5, 1, 2 ABU/FS
 Response: 0.05, 0.5, 1.5 sec
 Displays: For wavelength
 3 digits (nm) on the wavelength counter
 For output signals
 4 digits for ABU, Reference-side and Sample-side
 Recorder output: 10 mV
 Integrater output:
 0.2 V/ABU and 1 V/ABU
 Noise level: 0.00005 ABU
 [at wavelength: 250 nm
 response: 1.5 sec
 dry cell]
 Drift: 0.00005 ABU/H
 [at wavelength: 250 nm
 dry cell]
 Power supply: AC100/115/220 volts; 50/60 Hz
 Operating temp: 10°C to 40°C
 Weight: 14 kg
 Dimensions: 156(W)x 450(D)x 225(H) mm

Optional Cells

Preparative-use cells:
 30 μl , optical path/1 mm
 20 μl , optical path/0.5 mm
 15 μl , optical path/0.2 mm
 Micro-cell:
 1.3 μl , optical path/2.5 mm

*The specifications are subject to change without notice.

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