

Waters M 2487 UV-VIS Detector

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This Waters 2487 UV Detector with wavelength range of 190nm - 700nm.

The Waters 2487 detector is a 2 channel, tunable ultraviolet/visible (UV/Vis) detector that operates in single or dual wavelength mode, allowing 2487 spectrum scanning using a flow cell or a cuvette, providing RatioPlot and MaxPlot functions.

Waters 2487 Single Wavelength Mode

Single wavelength is the default mode of operation for the 2487, supporting monitoring of a single wavelength from 190nm to 700nm, settable in 1nm increments on Channel A.

Waters 2487 Dual Wavelength Mode

In dual wavelength mode, the detector monitors on Channel A and Channel B. The sampling frequency is reduced from 10Hz to 1Hz, limiting use of this mode to more standard chromatography, where peaks span at least 20 seconds to enable full characterisation of a peak.

Features

Stand-alone programmability - The 2487 detector stores up to 10 user defined programs (or methods) consisting of up to 16 programmable timed events and 2 threshold events each.

Integral erbium calibration reference - ensures wavelength accuracy

Automatic second order filter - 2487 detector Automatically engaged for wavelengths 370nm and greater and removed for wavelengths 369nm or less.

Spectrum scan and storage - supports spectrum scan, display, subtraction, storage and playback, in addition to standard tunable absorbance and UV/Vis functionality.

Cuvette qualification - facilities qualification of the detector by insertion of a standard in a cuvette without breaking any fluidic connections.

Cuvette sample analysis - 2487 detector allows the spectrum of any sample placed in the cuvette to be recorded.

2487 Method editing and storage - supports basic method programming, storage and retrieval from the front panel

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Full diagnostic capability - supports built in diagnostic tools to optimize functionality and performance.

Backward compatibility - operates as a 486 detector with Millennium Chromatography manager version 2.1n and lower, PowerLine, ExpertEase and other Waters products connected via the LAC/E interface using the IEEE-488 bus.

Specification

2487 detector Wavelength range: 190nm to 700nm

Bandwidth: 5nm

Accuracy: ± 1 nm

Repeatability: ± 0.10 nm

Sensitivity setting range: 0.0001 AUFS to 4.0000 AUFS

Lamp Source: Deuterium arc lamp

Flow cell: TaperSlit Flow Cell Design

Pressure limit: 1000psi / 70bar

Materials: 316 stainless steel, fused silica, Teflon.

Operating temperature: 4 degC to 40 degC

Operating humidity: 20% to 80%, noncondensing

Line frequency: 50Hz to 60Hz

Dimensions: 208mm(H) x 503mm (L) x 284mm (W)

Weight: 9.3 kg

Operating Voltage: 230 Volts AC.