



www.IetLtd.com Proudly serving laboratories worldwide since 1979

CALL +847.913.0777 for Refurbished & Certified Lab Equipment

Waters 2487 Dual Absorbance Detector

Waters 2487 detector is the most sensitive and versatile absorbance detector available for HPLC. With easy programming from the front panel keypad, timesaving qualification derived from the built-in cuvette capability, and dual wavelength operation, the 2487 detector will enhance the productivity of any chromatography laboratory. The 2487 detector can operate either as a stand-alone, modular UV/Vis absorbance detector or an integral component of several Waters HPLC Systems. All performance specifications are for the 2487 detector following a warm-up period of one hour.

Operating Specifications

Wavelength Range	190-700 nm
Light Source	Deuterium arc lamp, 2000-hour warranty
Bandwidth	5 nm
Wavelength Accuracy	±1 nm
Wavelength Repeatability	±0.1 nm
*Linearity	≤5% at 2.5 AU propylparaben, 257 nm
*Baseline Noise, Single Wavelength	<±0.35 x 10 ⁻⁵ AU, dry cell, 254 nm, 1 sec. TC
*Baseline Noise, Dual Wavelength	<±2.5 x 10 ⁻⁵ AU, dry cell, 254, 280 nm, 2 sec. TC
Drift	1 x 10 ⁻⁴ AU/hour
Measurement Range	0.0001 - 4.0000 AUFS
Filter Setting, Single Wavelength Mode	0.1-5 seconds (Hamming) 1-99 seconds (optional RC)
Filter Setting, Dual Wavelength Mode	1-50 seconds (Hamming) 1-99 seconds (optional RC)
Flow Cell Design	TaperSlit™(patented**)
Path Length	10 mm (standard analytical cell)

Cell Volume	10 μ L (standard analytical cell)
Pressure Limit	1000 psi (standard analytical cell)
Wetted Materials	316 stainless steel, fused silica, Teflon®
Optional TaperSlit Flow Cells	Semi-preparative, Inert (Titanium) High pressure for LC/MS, Microbore
Memory	10 time-programmed methods, 5 complete spectra
Analog Outputs	Two, software selectable: Absorbance Energy, Log Absorbance, RatioPlot, MaxPlot
Inputs	Remote Chart Mark, Auto Zero, Lamp On/Off, and Inject Start

IEEE-488 Bus	Standard for use with Waters Data Products, System Controllers, and Instruments
Power-up Diagnostics	Optics and electronic diagnostic routine
Lamp On/Off Timer	Front panel, remote event input, or time programmable
Deuterium Lamp	Warranty: 2000 hours or 1 year, whichever comes first
Power-up Wavelength Verification	Automatic on power up via internal erbium filter (patent pending) and D ₂ lamp
4-Point Wavelength Calibration	On demand via internal erbium filter and D ₂ lamp
*ASTM E1657-94	** Patent Number: 5,883721 (U.S.)

Physical/Environmental Specifications

Dimensions	Width: 11.2 inches (28.4 cm) Height: 8.2 inches (20.8 cm) Depth: 19.8 inches (50.3 cm) Weight: 20.5 pounds (9.3 kg)
Operating Temperature	+4°C to 40°C
Operating Humidity	20 to 80%, non-condensing
Audible Noise	<70 dB (A)
Electrical Specifications/Needs	
Power Requirements	100 VAC (85-110 V) 120 VAC (102-132 V) 220 VAC (187-242 V) 240 VAC (204-264 V)

Line Frequency	50 Hz (47 to 53 Hz) 60 Hz (57 to 63 Hz)
Power Consumption	145 VA (nominal)
Ordering Information	
2487 Dual λ Absorbance Detector (Analytical TaperSlit cell standard)	WAT081110
Optional TaperSlit Flow Cells:	
Semi-preparative 3 mm path length, 2.6 μ L volume	WAT081158
Inert (Titanium), Analytical 10 mm path length, 10 μ L volume	WAT081157
Microbore 3 mm path length, 2.6 μ L volume	WAT081159
High Pressure for LC/MS (3000 psi) 10 mm path length, 10 μ L volume	WAT081321
Waters 2487 Detector Qualification Workbooks	WAT520-01
Absorbance Detector Cuvette Kits:	
Linearity Cuvette Kit	WAT047691
Wavelength Accuracy Cuvette Kit	WAT047690
Two Cuvette Set (empty)	WAT047689



www.IetLtd.com Proudly serving laboratories worldwide since 1979

CALL +847.913.0777 for Refurbished & Certified Lab Equipment