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Find the *Waters 2996* at our website: ***Click HERE***

Waters® 2996 Photodiode Array Detector

Waters 2996 PDA Detector offers no-compromise chromatographic and spectral sensitivity, reliability and ease of use for analytical and preparative separations. Advanced spectral analysis enhances component recognition and homogeneity assessment.

Operating Specifications

Wavelength Range	190-800 nm
Light Source	Prealigned, Deuterium lamp
Spectral Resolution/Optical Bandpass	1.2 nm per photodiode with a total of 512 photodiodes, digital and optical (3D mode)
Digital Resolution	1.2 nm - 600 nm (2D mode)
Wavelength Accuracy	± 1 nm
Linearity Range	≤ 5% at 2 AU Propyl paraben, 257 nm
Baseline Noise	3.0×10^{-5} AU, at 254 nm (10 mm cell)
Drift	≤ 1.0×10^{-3} AU/hour/°C, dry cell at 254 nm
Sensitivity Setting Range	0.0001-2.0000 AUFS (under software control)
Filter Setting Range	0, 0.1, 0.2, 0.5, 1, 2, 3
Flowcell Design	Reversed TaperBeam™ Patented Refractive Index Corrected
Path Length	10 mm (standard analytical cell)
Cell Volume	8 µL (standard analytical cell)
Pressure Limit	1000 psi (standard analytical cell)
Wetted Materials	316 stainless steel, fused silica, Tefzel®
Outputs	Two analog integrator outputs Two programmable event outputs
Inputs	Two inject start inputs
Diagnostics	Self test or start-up
Deuterium Lamp	Warranty: 2000 hours or 1 year, whichever comes first

Physical/Environmental Specifications

Dimensions	Width: 11.5 inches (29 cm) Height: 8.1 inches (22 cm) Depth: 24 inches (61 cm)
Weight	31 pounds (14.3 kg)
Operating Temperature	+4 to 40° C (39° to 104° F) operation
Operating Humidity	20 to 80%, non-condensing

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Electrical Specifications

Power Requirements	100 - 230 VAC 230 VAC (190-264 V), 50/60 Hz
Line Frequency	50 - 60 Hz
Power Consumption	100 VA (nominal)

Ordering Information	Part Number
2996 Photodiode Array Detector	186000869
(Requires Waters Millennium®32 or MassLynx™ Software)	
Millennium32 Software:	
Millennium32 Single System NT	WAT047507
Millennium32 Multi System NT	WAT047509
Millennium32 Workstation Add-On Single System	WAT042990
Millennium32 Workstation Add-On Multi System	WAT042991
Millennium32 Client/Server – contact your local Waters Representative	

Optional Flowcells

Semi-preparative 3 mm path length, 2.5 µL volume	289000578
Inert (titanium) 10 mm path length, 8 µL volume	289000576
Microbore (and Integrity® MS) 3 mm path length, 2.5 µL volume	289000577
High Pressure Analytical (4000 psi) 10 mm path length, 8 µL volume	289000579
Variable Path Length Prep 0.15–3 mm path length, variable volume	WAT057664
Autopurification 1mm path length, dual flow path, 1.3 µl volume	289000612

All performance specifications are for the 2996 detector following a warm-up period of one hour.

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