

Waters®
2410
Refractive
Index
Detector

Waters 2410 Detector is a validated, high sensitivity, versatile HPLC Refractive Index Detector. It functions as a stand-alone detector or as an integrated member of a Waters Millennium® system offering single keyboard control and total results management. Standard configuration allows the control of up to two Column Heater Modules. All performance specifications are for the 2410 detector following a warm-up period of one hour.

Operating Specifications

Refractive Index Range	1.00 to 1.75 RIU
Measurement Range	5.0 x 10 ⁻³ RIU max FS (SENS=1, SF=1) 5.0 x 10 ⁻⁶ RIU min FS (SENS=1024, SF=100)
Flow Rate	0.03-10 mL/min
Noise	≤2 x 10 ⁻⁶ RIU
Drift	2.5 x 10 ⁻⁷ RIU/Hour (static, solvent in flow cell)
Flow Cell	Fused quartz
Cell Volume	10 µL
Cell Pressure	100 psi max with built-in pressure relief valve
Sensitivity Settings	1 (min) to 1024 (max) 11 steps with scale factors 1-100 to 5.0 x 10 ⁻⁶ RIU full scale
Linear Dynamic Range	5 x 10 ⁻⁷ to 5 x 10 ⁻³ RIU
Time Constant	0.2, 1, 3, 10 seconds
Temperature Control	Internal Oven: 30-50° C (User selectable in 1° C increments) External Column Heaters: Ambient to 150° C
Integrator Output	± 2 V FS (Programmable Offset)
Recorder Output	± 2 V FS (Programmable Scale)
IEEE-488 Bus	Standard for use with Waters Data Products

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	21.7 pounds (9.7 kg)
Operating Temperature	+15 to 32.2° C
Operating Humidity	20 to 80%, non-condensing

Electrical Specifications

Operating Voltages	110/120 V, 50/60 Hz 220/240 V, 50/60 Hz
Line Frequency	50 Hz (47 to 53 Hz) 60 Hz (57 to 63 Hz)
Power Consumption	100 W (nominal)
Fuse Ratings	3.15 A time delay, 100/120 VAC 3.15 A time delay, 220/240 VAC

Ordering Information

All 2410 Detectors come standard with IEEE-488 for compatibility with Waters Alliance™ Systems, Millennium based HPLC Systems as well as ExpertEase™ and PowerLine™ and the capability to control two Column Heater Modules

2410 Refractive Index Detector	WAT053958
Column Heating Chamber	WAT038040
Preparative Flow Splitter	WAT052160

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