

ERC

RI Detector

RefractoMax

The new ERC RI Detector — RefractoMax — ideal for micro-flow, standard analysis, and semi-preparative applications.



Technical Data			
Name:	RefractoMax524 (micro)	RefractoMax521 (analytical)	RefractoMax523 (semi-preparative)
Flow rate range:	0.1 to 1 mL/min	1 to 5 mL/min	50 to 200 mL/min
Instrument color:	Gray	Blue	Red
Flow cell volume:	2.5 μ L	8 μ L	8 μ L
Maximum back pressure:	50 kPa		
Flow cell type:	2 chamber type		
Measuring method:	Deflection type		
Temp. control:	30 to 55 °C (1 °C step)		
Reflective Index range:	1.00–1.75		
Measuring range:	0.25 to 512 μ RIU	0.25 to 512 μ RIU	2.5 to 5120 μ RIU
Linearity range:	600 μ RIU	600 μ RIU	6000 μ RIU
Drift:	0.2 μ RIU/h	0.2 μ RIU/h	2 μ RIU/h
Noise:	2.5 nRIU (response: 1.5 sec)	2.5 nRIU (response: 1.5 sec)	25 nRIU (response: 1.5 sec)
Response:	0.1, 0.25, 0.5, 1, 1.5, 2, 3, 6 sec		
Auto zero:	Full auto zero		
Auto zero range:	All range		
Offset range:	0 to 500 mV (10 mV step)		
Recorder output:	0 to 10 mV/FS		
Integrator output (Sensitivity):	DC 0 to 1 V (2 mV/ μ RIU, 8 mV/ μ RIU)	DC 0 to 1 V (2 mV/ μ RIU, 8 mV/ μ RIU)	DC 0 to 1 V (0.2 mV/ μ RIU, 0.8 mV/ μ RIU)
External output:	(1)Ready, (2)Leak, (3) Error (Over Heat / Low Light Intensity / Null Glass Home Position / Lost Parameters / Optical Balance) (contact capacity: DC 24 V 0.1 A max.)		
Communication port:	RS232C		
Wetted materials:	SUS316, Teflon, Quartz glass		
Dimension and weight:	H 150 × W 260 × D 450 (mm), approx. 12 kg		
Power supply:	AC 100 to 240 V +/- 10% 50/60 Hz, 120 VA max.		

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