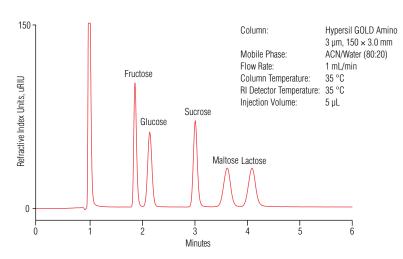
RefractoMax 521 Refractive Index Detector

Thermo Scientific offers the RefractoMax 521 Refractive Index Detector from ERC Inc. This detector, in combination with the Thermo Scientific™ Dionex™ UltiMate™ 3000 system, is the right choice for the isocratic analysis of sugars, polymers, and fatty acids. It features fast baseline stabilization and excellent reproducibility, combined with high sensitivity. The RefractoMax 521 is fully controlled by the Thermo Scientific™ Dionex™ Chromeleon™ Chromatography Data System, and can also operate in stand-alone mode.



Separation of five sugars on a Thermo Scientific™ Hypersil GOLD™ Amino column.

Features

- The detector is highly sensitive and applicable universally. It provides very stable baselines with a drift of 0.2 μRIU/h and a noise specification of 2.5 nRIU or less.
- The optical bench, thermostatically regulated from 30 °C to 55 °C, and the superior signal-to-noise ratio ensure highly precise measurement results.
- The extended flow rate range from 1 mL/min up to 10 mL/min and the operating range of 1.00 to 1.75 RIU enable the use of this detector for a wide range of applications.
- Applications include the analysis of all compounds with low UV-Vis activity, such as alcohols, mono- and polysaccharides, esters, fatty acids, or polymers.
- An Auto Set-up function automates purging, equilibration, autozero, and the control of baseline stability and noise.
- Operating with Chromeleon 6.80 or 7.1 software makes the detector easy to use and ensures maximum productivity in instrument control, data processing, and reporting of results.





REFRACTOMAX 521 SPECIFICATIONS		
Measuring Method	Deflection type	
Refractive Index Range	1.00–1.75 RIU	
Measuring Range	0.25-512 μRIU	
Linearity Range	600 μRIU	
Noise	≤ 2.5 nRIU (response 1.5 s)	
Drift	0.2 μRIU/h	
Response Time	0.1, 0.25, 0.5, 1, 1.5, 2, 3, 6 sec	
Polarity	Positive/Negative	
AutoZero	Optical and electrical auto zero	
AutoZero Resolution	≤ 1 (@ 8 mV/µRIU)/4 (@ 2 mV/µRIU) nRIU	
Offset Range	0 mV to 500 mV	
Integrator Output (Sensitivity)	DC 0 V to 1 V (2 mV/µRIU, 8 mV/µRIU)	
Recorder Output	0 mV/FS to 10 mV/FS	
Event Marker	Marker out: $\geq 5 \%$ of FS	
Temperature Control	30 °C to 55 °C: 80 °C Thermal protector	
External Communication	RS-232C; RS-232-to-USB interface cable is included in shipment	
External Output	(1) READY, (2) LEAK, (3) ERROR (OVER HEAT/LOW LIGHT INTENSITY/NULL GLASS HOME POSITION/LOST PARAMETERS/OPTICAL BALANCE) (contact capacity: DC24V 0.1A max.)	
Flow Cell Type	2 Chambers	
Flow Cell Volume	8 μL	
Flow Rate Range	1 mL/min to 5 mL/min	
Maximum Flow Rate	10 mL/min (with water)	
Pressure Rating	50 kPa (0.5 bar, 7 psi)	
Internal Volume	Inlet port/flow cell: approx. 60 μL; Flow cell/outlet port: approx. 480 μL; Total: 540 μL	
Wetted Materials	SUS 316, PTFA, Quartz glass	
Power Requirements	AC 100 V to 240 V +/- 10 %, 50 Hz/60 Hz, 120 VA max.	
Dimensions	H 150 x W 260 x D 450 (mm)	
Weight	12 kg	

Ordering Information

To order in the U.S., call (800) 346-6390 or contact the Thermo Scientific office nearest you. Outside the U.S., order through your local Thermo Scientific office or distributor. Refer to the following part numbers.

Description	Part Number
RefractoMax 521 Refractive Index Detector	5060.0050

www.thermoscientific.com/dionex

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Australia +61 3 9757 4486 Austria +43 1 333 50 34 0 Belgium +32 53 73 42 41 Brazil +55 11 3731 5140 China +852 2428 3282

Denmark +45 70 23 62 60 France +33 1 60 92 48 00 Germany +49 6126 991 0 India +91 22 6742 9494 Italy +39 02 51 62 1267 Japan +81 6 6885 1213 Korea +82 2 3420 8600 Netherlands +31 76 579 55 55 Singapore +65 6289 1190 Sweden +46 8 473 3380 Switzerland +41 62 205 9966 Taiwan +886 2 8751 6655 UK/Ireland +44 1442 233555 USA and Canada +847 295 7500

