

S 3590 REFRACTIVE INDEX DETECTOR



*The **Sykam S 3590 Refractive Index Detector** offers the sensitivity, stability and reproducibility required for optimal RI detection.*

The thermal isolated optic with a countercurrent heat exchanger and with its programmable temperature control, results in an extremely stable baseline and an optimal Signal /Noise ratio.

*The **Sykam S 3590 Refractive Index Detector** provide autopurge and autozero capabilities, as well as RS232 communication to acquire data directly without using any external signal interface.*

***Sykam S 3590 Refractive Index Detectors** are available for:*

- *micro*
- *analytical*
- *semipreparative mode*

■ Technical Specifications*

	Micro	Analytical	Semi-Preparative
Detection Method:	Deflection		
Refractive Index Range:	1.00 to 1.75		
Flow Rate:	0.2 - 3.0 ml/min	0.2 - 3.0 ml/min	1 - 50 ml/min
Cell Volume:	4 µl, 45° angle	9 µl, 45° angle	7 µl, 5° angle
Flow Cell Pressure:	6 kg/cm ²		
Dead Volume:	6 µl	24 µl	88 or 353 µl
Linearity Range:	0 - 500 µRIU	0 - 1000 µRIU	0 - 20000 µRIU
Noise Level:	10 x 10 ⁻⁹ RIU	5 x 10 ⁻⁹ RIU	10 x 10 ⁻⁸ RIU
Drift with 1ml H ₂ O/min	< 1mv/hour	< 1mv/hour	< 1mv/hour
Integrator Output:	± 1 V		
Recorder Output:	± 10 mV/ 100 mV/ 1 V		
Recorder Offset:	0 mV/ 10 mV/ 100 mV		
Recorder Range:	8 steps (1:8) - 16:1)		
Digital Interface:	RS232, Purge, Autozero, Start, Stop, DataOut: 1 Hz, 10 Hz		
Digital Output:	TTL: Intensity Alarm		
Digital Input:	TTL: Purge, Autozero, Start, Marker		
Temperature Setting:	Ambient, 35°C to 55°C in 1 °C steps, Thermal Fuse 75°C		
Time Constant:	RAW (0.0 sec.), Fast (0.4 sec.), Medium (0.8 sec.), Slow (1.2 sec.)		
Weight:	13 kg		
Dimensions: (W x H x D)	396 x 165 x 478 mm		
Power Supply:	100-120/220-240 ~V (50/60 Hz), 50 VA		

■ Order Information

Catalog No	Description
10 31 022	S 3590 RI Detector - Micro
10 31 016	S 3590 RI Detector - Analytical
10 31 023	S 3590 RI Detector - Semi-Preparative
40 10 013	Spare Longlife Tungsten Lamp

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* All technical specifications may be subject to change.

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change without notice.

