

refractometric detectors

FOR PLC

The RI 2000 Differential Refractive Index Detector series offers the sensitivity, stability and reproducibility required for optimal RI detection. The thermal isolated optic with a counter current heat exchanger and with its programmable temperature control, results in an extremely stable baseline and an optimal Signal/Noise ratio. The RI 2000 series provide autopurge and autozero capabilities, as well as RS232 communication to acquire data directly without using any external signal interface.

	RI2000M/micro	RI2000A/analytical	RI2000P/semiprep
Detection Method	Deflection		
Refractive Index Range	1,00 to 1,75		
Flow Rate	0,2 - 1,2 ml/min.	0,2 - 3,0 ml/min.	1,0 - 50 ml/min.
Flow Cell Volume	4 µl, 45° angle	9 µl, 45° angle	7 µl, 5° angle
Max. Flow Cell Pressure	6 kg/cm ²		
Dead Volume	Into cell 6 µl	Into cell 24 µl	Into cell 88 or 353µl
Linearity Range	0-500 µl RIU	0-1000 µl RIU	0-20000 µl RIU
Noise Level	10 x 10 ⁻⁹ RIU	5 x 10 ⁻⁹ RIU	10 x 10 ⁻⁸ RIU
Autozero Range	Full Range	Full Range	Full Range
Drift with 1ml H ₂ O/min.	< 1 mV/hour	< 1 mV/hour	< 1 mV/hour
Purge Valve	yes	yes	Yes/No (depends on flow)
Integrator Output	+/- 1 Volt		
Recorder Output	+/- 10 mV / 100 mV / 1Volt		
Recorder Offset	0 mV/ 10 mV/ 100 mV		
Recorder Range	8 steps (1:8) - (16:1)		
Marker	Yes / No		
Digital Interface	RS232 bidirectional, Purge, Autozero, Start, Stop		
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 (0,4sec), Medium (0,8 sec), Slow (1,2 sec)		
Power Source	AC 100-120/220-240V, 50/60 Hz, 50VA		
Dimensions in cm	220mm x 350mm x 155mm (W x D x H)		
Weight	12 kg		

RI 2000 detectors are available for:

- micro
- analytical
- semipreparative mode

