

RI 2012 Refractive index detector

The **Refractive Index Detector RI2012** series provides a consistent enhancement of the already successfully established RID models RI2000 and RI2000-F. The RID 2012 series offers users 3 times higher sensitivity, (compared to RI2000) stability and reproducibility required for optimal RI detection in HPLC / GPC. By consistently revising the electronic components, it has been possible to significantly improve drift and noise.

The optical system is now better insulated against temperature changes and with programmable temperature settings, ensures a stable baseline and an optimal signal/noise-ratio.



The auto zero, purge, polarity, temperature and the frequency for data output are externally controllable by USB or RS232 Port. RID system status - information such as temperature and total voltage can be externally retrieved by RS232 or USB. The **Refractive Index Detector RI2012** offers communication interface to acquire data directly with Clarity Chro-

Technical Specifications*

	RI 2012M, micro	RI 2012A, analytical	RI 2012P, semi preparativ
Detection Method:	Deflection	Deflection	Deflection
Refractive Index Range:	1.00 to 1.75	1.00 to 1.75	1.00 to 1.75
Flow Rate:	0,2 – 3,0ml/min	0,2 – 3,0ml/min	5 – 50ml/min
Flow Cell Volume	4 µl, 45° angle	9 µl, 45° angle	13 µl, 5° angle
Flow Cell Pressure	6 kg/cm2	6kg /cm2	6kg/cm2
Dead Volume Into cell	6 µl	24 µl	88 or 314 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
Autozero Range:	Full Range	Full Range	Full Range
Drift with 1ml H2O/min.	< 1mV/hour	< 1mV/hour	1mV/ hour
Purge Valve	yes	yes	yes / no (depends on flow)
Integrator Output:	+/- 1 Volt	+/- 1 Volt	+/- 1 Volt
Recorder Output:	+/- 10mV / 100mV / 1Volt		
Recorder Offset:	0 mV/10mV/ 100mV		
Recorder Range:	8 steps (1:8) - (16:1)		
Marker:	Yes / No		

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Order Information Refractive index detector RI 2012

Part-No.:	Description:
RI2012, M	Refractive index detector RI 2012M, micro
RI2012, A	Refractive index detector RI 2012A, analytical
RI2012, P	Refractive index detector RI 2012P, semi preparativ

Order Information Spare Parts Refractive index detector RI 2012

Part-No.:	Description:
RI2000-030	Flow cell, RI 2012, micro
RI2000-001	Flow cell, RI 2012, analytical
RI2000-031	Flow cell, RI 2012, semi preparativ
RI2000-012	Lamp RI 2012
RI2000-024	Seal kit for flow cell RI 2012
RI2000-006	Purge valve RI 2012