

## refractometric detectors

### FOR PREPARATIVE CHROMATOGRAPHY



RI2012 is an analytical RI detector, but with bypass can be used for PLC too. It offers high sensitivity, stability and reproducibility for optimal RI detection. 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 frequency of data output are externally controllable by USB and RS232 Port. RID system status such as temperature and total voltage can be externally retrieved by RS232 or USB. For preparative chromatography detector has to be used with automatic bypass unit.

Specification	Value
Detection Method	Deflection
Refractive Index Range	1,00 to 1,75
Flow Rate	0,2 - 3,0 ml/min.
Flow Cell Volume	9 $\mu$ l, 45° angle
Max. Flow Cell Pressure	6 kg/cm <sup>2</sup>
Dead Volume	Into cell 24 $\mu$ l
Linearity Range	0-1000 $\mu$ l RIU
Noise Level	5 x 10 <sup>9</sup> RIU
Autozero Range	Full Range
Drift with 1ml H <sub>2</sub> O/min.	< 1 mV/hour
Purge Valve	yes
Integrator Output	+/- 10 mV / 100 mV / 1Volt
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 (1,6 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