

The **AZURA RID 2.1L** is a **sensitive** and **competitively priced differential refractometer**. This instrument is designed for use in analytical HPLC as well as for GPC applications.

The intelligently designed optical unit with **advanced temperature control** ensures **high sensitivity**, **fast baseline stabilization**, and **excellent reproducibility**. The **wide linear dynamic range**, its **low internal volume of 43 µl from the inlet to the flow cell**, and **10 ml/min maximum flow rate** make it perfect choice for most laboratory tasks.

This detector can be controlled with OpenLAB EZChrom, Clarity, Chromeleon, and PurityChrom Bio software, AZURA Mobile Control app (stand-alone operation), via LAN or analog input/output, allowing it to be integrated into almost any LC system.



Main features and benefits

- Temperature controlled
- High sensitivity
- Excellent reproducibility
- Fast baseline stabilization
- Long-life LED
- Pressure-resistant flow cell
- Minimal maintenance

TECHNICAL DATA

Refractive index range	1.00–1.75 RIU
Noise	± 2.5 nRIU
Drift	200 nRIU/h
Linearity	> 1000 µRIU
Flow cell	5 bar back pressure resistance flow cell included, volume 10 ml/min (pure water)
Max. flow rate	10 ml/min (pure water)
Wetted materials	Stainless steel/quartz/PTFE
Temperature control	OFF, 30–55 °C (1 °C increment)
Time constants	0.00 / 0.01 / 0.02 / 0.05 / 0.1 / 0.2 / 0.5 / 1.0 / 2.0 / 5.0 / 10.0 s
Maximum data rate	100 Hz (LAN)/20 Hz (Analog)
Inputs/outputs	Error (IN), Start (IN), Autozero, Flush (IN)/Event 1, Start (OUT), Error (OUT), +5 V, 24 V Valve
Analog outputs	1 × 0–2.5 V scalable, 20 bit, offset adjustable
Control	Mobile control, software, event control, analog, terminal protocol, display
Interfaces	2 × LAN (RJ-45, dual IP-stack), USB (service only), multi-pin connector, analog (cinch connector)
Power supply	100–240 V, 50–60 Hz, 65 W
Dimensions	361 × 158 × 523 mm (W × H × D)
Weight	10.8 kg