

PN3150

Refractive Index Detector



PN3150 Refractive Index Detector

Specifications

- **Detection Principle:** Deflection type differential RI detector
- **Refractive Index Range:** 1,00 to 1,75
- **Temperature Settings:** 30°C to 50°C in 1°C steps
- **Maximum Flow Rate:** 10 mL/min
- **Pressure Rating:** 50 kPa
- **Flow Cell Volume:** 8 µL (analytical)
- **Internal Volume:**
Inlet Port to Flow Cell: ca. 60 µL
Flow Cell to Outlet Port: ca. 520 µL
Total Internal Volume: ca. 590 µL
- **Wetted Materials:** SST316, Teflon, Quartz Glass
- **Response Time:** 0.1; 0.25; 0.5; 1.0; 1.5; 2; 3; 6s
- **Range:** 1/4 - 512 µRIU
- **Linearity:** 600 µRIU
- **Noise Level:** 2.5 nRIU (Response: 1.5 seconds)
- **Integrator - Output:** 0 - 1 Volt
- **Recorder - Output:** 0 - 10 mVolt
- **External Communication:** Ethernet
- **EMC/Safety Standards:** EN61326-1/EN61010-1
- **Weight:** ca. 12 kg
- **Outer Dimensions:** Width/Height/Length 285x130x420 mm
- **Power Supply:** 230/115 V; 50/60 Hz
- **Power Consumption:** 150VA (maximum)

The new PN3150 deflection type differential Refractive Index Detector is a detection system which offers the highest sensitivity combined with exceptional baseline stability at the same time. Thus the system is ideally suited for „flow sensitive“ applications such as FFF and GPC.

The unit comes in the new Postnova design and has a removable front cover. The manual touch keys combined with the display allows complete control of the detector without the need for any external software system. At the same time, the PN3150 can be easily controlled externally using the integrated Ethernet interface connection port.

An auto-start procedure allows the user to purge, calculate noise and drift values and auto zero before a Ready Status is indicated. This procedure is completely automated and does not need to be supervised by the user.

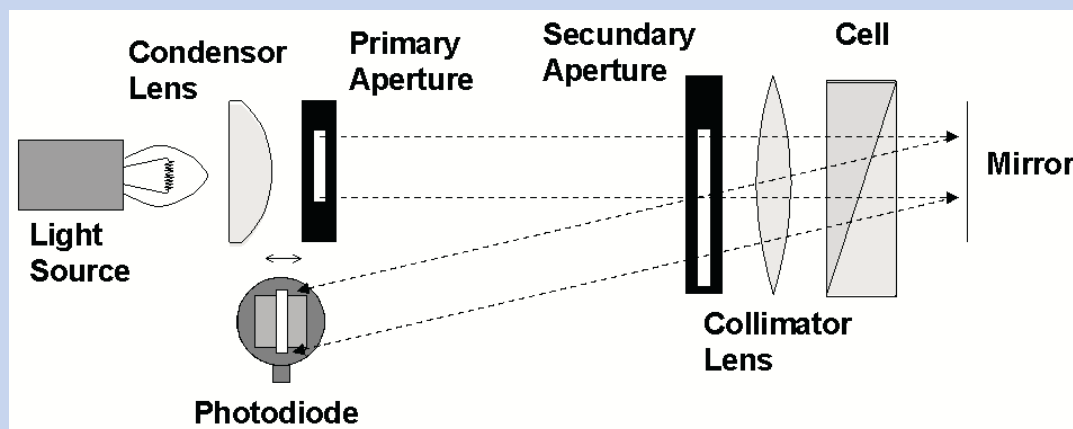
Temperature can be set from 30 - 50°C in 1°C increments. Because of the unique high speed temperature control provided by the thermally shielded optics with a counter current heat exchanger and the programmable temperature control, the detector offers a highly stable baseline and a very good signal/noise ratio in an extraordinary short time compared to other available systems.

The PN3150 Refractive Index detector also has a solvent leak sensor that indicates a solvent leak inside the detector.

The detector fits completely into the Postnova product portfolio and can be combined with all other postnova systems as well as with chromatography systems from different manufacturers.

The detector is available as analytical, micro, preparative and analytical/preparative version by using different cell volumes.

The working principle of this deflection type Refractive Index detector is as follows:



Options:

Flow Cells

- Z-DET-3150-001 microbore (2.5 µL Cell Volume)
- Z-DET-3150-002 analytical (8.0 µL Cell Volume)
- Z-DET-3150-003 preparative (8.0 µL Cell Volume)



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