



UV detector LCD 2071.3

P/N 71A00000

is **small simple unit** for use in **analytical, preparative and FLASH** liquid chromatography applications based on measurement of absorption of UV radiation of **254nm**. The unit is easy for operating, **reference and sample signal** are available for detector diagnostics. **Work hours** of lamp are counted using build in counter.

There is possible to control the unit using keyboard, external logic signals or using **RS 232**. The output signal available in **digital and analogue form** on the output connector. The detector is equipped with an interference filter 254 nm to reduce the others spectral lines of mercury lamp.

Very interesting are the **small dimensions** of unit.

There is possible to use three type of cells:

Preparative cell PLCC 11 with basic path length **0,1 mm**

Preparative cell PLCC 13 with basic path length **0,3 mm**

Analytical cell HPLC 08

Specification

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|------------------------------------|---|
| Wavelength | 254 nm |
| Light source | low pressure mercury lamp Nk4/4 |
| Time constant | 1.0 sec. |
| Noise level at empty cell | $\pm 8 \times 10^{-5}$ AU |
| Drift at empty cell (after 1 hour) | 8×10^{-4} AU/hr |
| Absorbance output | 0.5 V/au |
| Power supply | 230 V \pm 10%, 50 Hz or 115/100 V \pm 10%, 50-60 Hz |
| Power input | 34 VA |
| Dimensions (W x H x D) | 165 x 178 x 250 mm (6.50" x 7.0" x 9.84") |
| Weight | 4kg |

Important notice: Output signal of the detector is directly proportional to the optical path of the cell. Since the optical paths of cells may be changed, noise and drift levels are referred to the optical path of 10 mm, corresponding to the AU definition.

Analytical cell HPLC 08

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|----------------------------------|---|
| Volume / optical path | 10 μ l / 5 mm |
| Diameters of capillaries OD x ID | input 1/16" x 0.2 mm; output 1/16" x 0.5 mm |

Preparative cell PLCC 11 / PLCC 13

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|----------------------------------|---|
| volume/optical path (adjustable) | 45 μ l / 0.1 mm 0.3 mm by PLCC 13 55 μ l / 1.4 mm 70 μ l / 2.4 mm |
| cell connecting | tubing with OD = 1/16" or 1/8", thread 1/4"-28 |