

## Light Scattering Detector ELSD 3300

Sensitive, Universal HPLC Detection, Independent of Eluent Composition.

The Light Scattering Detector ELSD 3300 has a wide range of applications in routine analysis and research. Common fields of application for the ELSD 3300 include the analysis of non-UV active compounds such as: sugars, fats, surfactants, polymers, pharmaceuticals, Amino acids / Peptides, Natural compounds. Three-Step-Principle: 1) **Nebulization** of the column effluent in nitrogen by means of a jet. 2) **Evaporation** of the mobile phase in a heated zone leaving a fine mist of sample particles. 3) **Detection** of the scattered light, when the sample particles pass and interfere the laser light beam. Gradient runs of variable slope and composition can be detected drift free without complicated setup procedures, because vaporization of the mobile phase occurs before detection takes place.



updated: 06/20/2008

### Detector

**Light Source** Laser diode with collimating optics, 650 nm, 30 mW output, class IIIb

**Detector** Silicon photo diode

**Sensitivity (Limit of Detection, LOD)** butyl paraben, 25 ng

### Nebulizer

**Gas** nitrogen preferred

**Gas Flow Rate** calibrated to 4 l/min

**Gas Inlet Pressure** 60 - 80 psig (4.0 - 5.5 bar)

**Operating Range** typical 1.0 - 2.0 l

**HPLC Flow Rate** 0 - 3.0 ml/min

**Maintenance** easily accessible from the front if cleaning required

### Heated Zone

**Temperature Range** ambient to 120°C in 1°C increments

### Analog Output

selectable between 0 - 1 V or 0 - 10 mV

### Control and Data Ports

RS-232 (furthermore USB and Ethernet available)

### Communication

**Inputs** TTL/contact closure for auto zero, gas shutoff, start, and standby

**Outputs** contact closure for pump shutdown and general events

### Display / Operation

graphical color LCD incl. live view of signal curve, 7-language user interface, help function, integrated method setup wizard / alphanumerical keypad

### Power Supply

120 / 240 V, 50 / 60 Hz

### Dimensions / Weight

262 x 295 x 495 mm (W x H x D) / 16.0 kg

Technical data is subject to change without notice.

### Ordering Information

A0925-1 Light Scattering Detector ELSD 3300  
sensitive, gradient capable ELSD for detection of UV inactive substances such as carbohydrates, surfactants, polymers, natural compounds, or many pharmaceuticals in HPLC systems

### Important Note:

Covers a wide flow range without the need for hardware modifications. According to current information, the most sensitive ELSD on the market. Integrated method setup wizard.