

SEDEX
LT-ELSD™

Low Temperature - Evaporative Light Scattering Detectors

THE RESULT OF 25 YEARS OF EVOLUTION



SEDEX 80LT
FOR QUALITY CONTROL AND EDUCATIONAL LABORATORIES

SEDEX**LT-ELSD™**

Low Temperature
Evaporative Light-Scattering Detectors

SEDERE

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SENSITIVITY
FLEXIBILITY
EXPERIENCE

SEDEX 80LT FOR QUALITY CONTROL AND EDUCATIONAL LABORATORIES



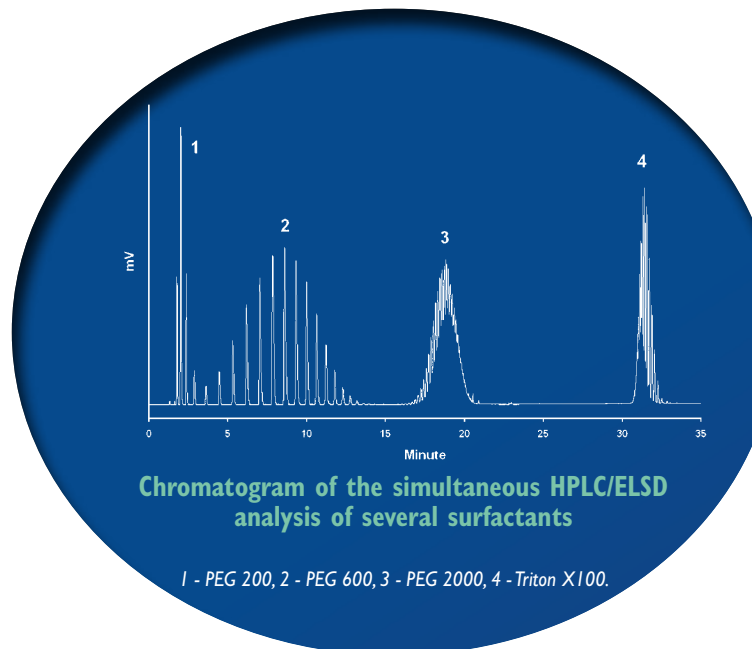
SEDEX Model 80LT Low-Temperature Evaporative Light-Scattering Detector for **HPLC** can be used for the detection of essentially all compounds: detection is based on a universal property of all analytes and does not require the presence of a chromophoric group, electroactive group, etc. SEDEX Model 80LT combines sensitivity, reliability, and accuracy for your analyses, thanks to unrivalled SEDERE low-temperature technology. This detector presents a number of outstanding innovations providing the best optical and electronic benefits at a very competitive price. SEDEX Model 80LT can be connected to any HPLC equipment, and you can control the detector locally or via a PC (with RS-232 activated models) for a fully integrated system thanks to our range of SEDEX drivers. A remote shut down mode is also provided to minimize cost and enhance system lifetime. Full SOP protocols are provided for GLP compliance and validation procedures.

FEATURES AND BENEFITS:

- Low-temperature evaporation of the mobile phase: optimizes sensitivity of thermally labile and semi-volatile compounds.
- Enhanced sensitivity using digital signal treatment: an innovative signal processing algorithm minimizes noise and optimizes sensitivity.
- Minimized band broadening thanks to an innovative cell design and a choice of nebulizers. Two nebulizers, HPLC and Flash Chromatography, are available to optimize your applications. These nebulizers cover the flow rate range from 100µL/min to 5mL/min and can be easily changed to meet your application requirements. In addition, all parts of SEDEX Model 80LT are designed so that the observed peak widths are similar to those obtained with UV/Vis detectors.
- Complete Remote Control: gas, heater, photomultiplier and light source can be automatically switched off at the end of a series of analyses.

TYPICAL APPLICATION: SURFACTANTS

The high sensitivity and time saving potential of LT-ELSD™ are evident in the HPLC/ELSD analysis of mixtures of polymers in a single run which is not feasible with alternative methods such as RI, UV and MS detection.



TECHNICAL SPECIFICATIONS

COMPONENTS	
Detection	Photomultiplier (PMT)
Light Source	Blue LED
	Elapsed Time Counter
Temperature Range	Ambient to 100°C
Nebulizer	HPLC, Flash-Purif
Eluent Flow Rate	100µL/min to 5mL/min
Typical Sensitivity	5ng
DATA	
Analog Output	0 - 1 Volt
Gain Settings	1 to 12 - Factor 211 (2048)
Filter	Moving Average (0 - 0.5 - 1 - 2 - ... - 10)
Data Rate	40Hz
COMMUNICATION	
Selection & Display	Liquid Crystal Display and Keypad
Events	Contact Closure, TTL for Ready, Autozero
Power-down Methods	Shut-off: Gas, Light Source, Heating and/or PMT
	Cleaning Mode
Computer Interface	RS-232 (option)
Software	Drivers (option)
EXTERNAL REQUIREMENTS	
Power	230V/50Hz or 115V/60Hz
Gas Supply	Nitrogen or Air
	3.5bar (less than 3L/min)
Dimensions	250mm (10in) W
	480mm (19in) H
	550mm (22in) D
Weight	18.5kg (41lb)

SEDERE IS COMMITTED TO USER SATISFACTION WITH EVERY SEDEX DETECTOR, AND PROVIDES YOU WITH:

- A Worldwide distribution network at your service.
- On-site installation and training.
- Full SOP (Standard Operating Procedures) including IQ, OQ, PQ.
- Technical and applications support.
- Web-access to applications in many fields.
- User seminars, on and off-site.
- Flexible service contract options.
- Easy-to-order spare parts and accessories.