




# SEDEX™ 85LT FOR HIGH PERFORMANCE AND HIGH THROUGHPUT




Exclusive low-temperature evaporation for a better sensitivity of thermally labile and semi-volatile compounds



Drivers available for most of chromatographic software for easy integration and total control



Wide choice of nebulizers to fit your application: HPLC, UHPLC, SFC, Low flows...



Direct dynamic range of 4 orders of magnitude and extended linear region for easy and reliable quantitation

SEDEX Model 85LT Low-Temperature Evaporative Light-Scattering Detector for conventional HPLC, U-HPLC and SFC allows 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 85LT combines excellent 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 reasonable price.

SEDEX Model 85LT can be connected to any HPLC or SFC equipment, and you can control the detector locally or via a PC for a fully integrated system thanks to our range of SEDEX drivers.

A remote shutdown mode is also provided to minimize cost and enhance system lifetime. Full SOP protocols are provided for GLP compliance and validation procedures.

# SEDERE IS COMMITTED TO USER SATISFACTION WITH EVERY SEDEX DETECTOR



Worldwide distribution



On-site installation and training



Full qualification protocol



Technical and application support



Web-access to application database



User seminars, on and off-site



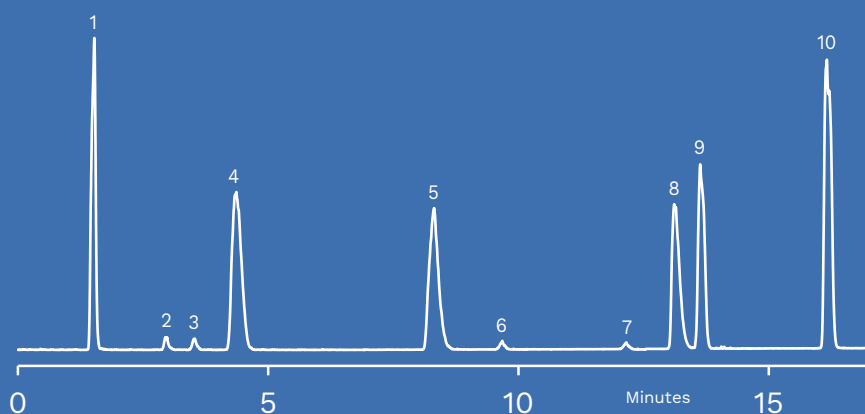
Flexible contract options



Spare parts and accessories

## APPLICATION: Multimodal stationary phase HPLC-ELSD chromatogram of simultaneous analysis of polar, non-polar, neutral acidic and basic pharmaceutical drugs and their counterion

The outstanding combination of multimodal columns with a unique detection mode such as LT-ELSD can provide simple, direct and simultaneous analyses of active pharmaceutical ingredients of different chemical structures and their respective counterions.



1. Acetaminophen
2. Sodium
3. Potassium
4. Hydrocortisone
5. Procainamide
6. Chloride
7. Nitrate
8. Miconazole
9. Losartan
10. Dichlofenac

## TECHNICAL SPECIFICATIONS

### COMPONENTS

Detection	Photomultiplier (PMT)
Light Source	Blue LED 470nm Elapsed Time Counter
Temperature Range	Ambient to 100°C
Nebulizer	HPLC, UHPLC, LowFlow, Micro, CC, SFC
Eluent Flow Rate	5µL/min to 5mL/min
Typical Sensitivity	1 ng

### DATA

Analog Output	0 - 1 Volt
Gain Settings	1 to 12
Filter	Moving average (0, 1, 2...10)
Data Rate	100Hz

### COMMUNICATION

Selection & Display	LCD Display and Keypad
Events	Contact Closure, TTL for Ready, Autozero
Power-down Methods	Shut-off: Gas, Light Source, Heating and/or Photodiode Cleaning Mode
Computer Interface	USB, RS-232
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)