

SEDEX LT-ELSD™

LOW TEMPERATURE EVAPORATIVE
LIGHT SCATTERING DETECTORS

SEDEX 81LT

CORE LT-ELSD™ SENSITIVITY FOR STANDARD ANALYTICAL WORKFLOWS



35 YEARS OF EVOLUTION

sedere

Parc du Moulin - 841 Bd Duhamel du Monceau
45160 Olivet - France

Tel: +33 2 38 66 84 47 - Email: info@sedere.com

www.sedere.com



SEDEX 81LT — CORE LT-ELSD™ SENSITIVITY FOR STANDARD ANALYTICAL WORKFLOWS

ELSD standard



The SEDEX 81LT combines high sensitivity, rock-solid reliability and analytical accuracy, powered by the proven advantages of true SEDEX Low-Temperature ELSD technology.



Compact and brilliantly engineered, this detector introduces a fresh design and smart innovations that deliver outstanding optical and electronic performance at an attractive price point. With only 10 inches of bench space, the SEDEX 81LT brings powerful aerosol-based detection to any LC platform without compromising footprint or budget. Complete SOPs are provided to support GLP compliance and streamlined validation.



Designed to be both efficient and intuitive, the SEDEX 81LT offers fully cost-effective LT-ELSD™ performance for routine and advanced Liquid Chromatography. Control can be done directly on the unit or via PC, and the remote shutdown mode helps reduce running costs and extend the lifetime of critical components.



True Low-Temperature evaporation for superior sensitivity



Universal detection for virtually all analytes — no chromophore needed



SAGA prevents signal saturation and delivers an extended dynamic range.



Wide flow range with low-dispersion SEDEX 81LT nebulizer and tool-free handling.



IQ/OQ/PQ documentation included for GLP and validation procedures



Local or PC-controlled operation for maximum flexibility



Remote automatic shutdown to reduce consumables and protect components

Components

Detection SAGA™ enabled Photodiode

Light source Blue LED with elapse time counter

Temperature range Ambient to 100°C

Nebulizers HPLC

Eluent flow rate 200 µL/min to 2 mL/min

Typical sensitivity 5 ng

Data

Analog output 0-1 Volt

Gain settings 1 to 7

Filter Dedicated numerical algorithm

Signal amplification SAGA™ or fixed gain

Data rate 30 Hz

Communication

Display and selection OLED display and keypad

Events Contact closure, TTL for ready, autozero

Powerdown methods Shut-off: gas, light source, heating, and/or photodiode cleaning mode

Computer interface USB, RS-232

Software Drivers (option)

External requirements

Power 100 V to 240 V (50 Hz / 60 Hz)

Gas supply Nitrogen or air 3.5 bar (less than 3 L/min)

Dimensions 250 mm (10 in) W / 330 mm (13 in) H / 530 mm (21 in) D

Weight 15 kg (33 lb)

SEDERE is committed to user satisfaction with every SEDEX detector



Worldwide distribution



On-site installation and training



Full qualification protocol



User seminars, on and off-site



Technical application and support



Web-access to application database



Flexible contract options



Spare parts and accessories