

# SEDEX LT-ELSD™

LOW TEMPERATURE EVAPORATIVE  
LIGHT SCATTERING DETECTORS

## SEDEX PA

POLYMER ANALYSIS, PERFECTED AT ANY  
TEMPERATURE



35 YEARS OF EVOLUTION

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# SEDEX PA — POLYMER ANALYSIS, PERFECTED AT ANY TEMPERATURE

## ELSD for polymers



The SEDEX PA is the new generation of LT-ELSD™ technology dedicated to polymer and macromolecule analysis. Designed for demanding SEC/GPC and polymer workflows, it combines SEDERE's renowned Low-Temperature sensitivity with the capability to operate at higher temperatures whenever needed, providing unmatched flexibility for complex polymer chemistries.



Whether protecting thermally sensitive oligomers or efficiently evaporating high-boiling-point solvents, the SEDEX PA adapts seamlessly to your method. Its advanced evaporation architecture and optimized aerosol generation ensure stable baselines, clean peak shapes and reliable response across broad molecular-weight distributions.



To support the diversity of polymer solvents—including aggressive or unconventional formulations—the SEDEX PA features a fully inert wetted-surface design, with only Glass, Stainless Steel, Aluminium and PTFE in contact with the mobile phase. This guarantees outstanding chemical compatibility and long-term robustness for a wide range of solvents commonly used in polymer science.



Compact, precise and fully software-controlled, the SEDEX PA integrates effortlessly into any SEC/GPC or HPLC system, bringing a new level of performance and versatility to polymer characterization, formulation development and advanced research.



**Dual-mode evaporation:** true Low Temperature + High Temperature capability for the most demanding solvents and polymers



**Universal detection for virtually all analytes — no chromophore needed**



**Fully inert wetted parts (Glass, Stainless Steel, Aluminium, PTFE) ensuring broad solvent compatibility**



**SAGA prevents signal saturation and delivers an extended dynamic range.**

### Components

**Detection** SAGA™ enabled Photodiode

**Light source** Blue LED with elapsed time counter

**Temperature range** Ambient to 120°C

**Nebulizers** Polymer Analysis

**Eluent flow rate** 100 µL/min to 5 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** 100 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)



**Optimized nebulizer and cell design for minimal band broadening in SEC/GPC**



**Remote automatic shutdown to reduce consumables and protect components**



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



**Local or PC-controlled operation for maximum flexibility**

## 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**