ELSE NUCLEAR

LEM vätskeeffluentmonitor

Liquid effluent monitor

A system that samples liquid effluents and analyzes radioactivity using gamma spectrometry.



Detector type	Energy range	Maximum frame weight
2 × 2 inch NaI(Tl) [2]	**30 keV–2 MeV** [2]	**500 kg** [2]

Specifications

DETECTOR

Detector type	2 × 2 inch NaI(Tl)	[2]
Sample geometry	1 L plexiglass Marinelli	[1]

PERFORMANCE

Efficiency in measurement geometry, Cs-137	ver 1.5%	[2]

MEASURING RANGE

Energy range	30 keV–2 MeV	[2]
Response in measurement geometry, Cs-137	ver 12 cps/kBq	[2]

POWER & BATTERY

Power-failure action	Alarm and interlock activate	[2]

MECHANICAL

Frame dimensions (W × D × H)	80 × 70 × 150 cm	[2]
Maximum frame weight	500 kg	[2]

GENERAL

Measurement functions	Spectrometric analysis of liquid effluents	[1]
Result units	Bq/L, cps or cpm	[2]
Lead shielding	50 mm standard; 100 mm optional	[2]
Sampling system working pressure	10 bar when sampling equipment is supplied with the system	[2]

Sources

[1] **LEM**
ELSE NUCLEAR · product-page · product page · checked 2026-10-16
https://www.elsenuclear.com/portfolio/lem/

[2] LEM – Liquid effluent monitoring system (datasheet)
ELSE NUCLEAR · datasheet · p. 2 · checked 2026-10-16
https://www.elsenuclear.com/wp-content/uploads/2025/12/DAT_LEM_EN_1.06.pdf

Every value is taken from the manufacturer's own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer's published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.