ELSE NUCLEAR

PPM personportal

Pedestrian radiation portal

A portal monitor that screens people for radioactive sources or possible contamination.



Detector type	Energy range	Weight
2 plastic scintillators [1]	**35 keV–2 MeV** [1]	**360 kg** [1]

Specifications

DETECTOR

Detector type	2 plastic scintillators	[1]
Detector sampling interval	1 s	[1]
Neutron detection	ptional	[1]

PERFORMANCE

Background compensation	Automatic background acquisition when portal is unoccupied	[2]

MEASURING RANGE

Energy range	35 keV–2 MeV	[1]
Response to Cs-137	50 kcps/(µGy/h) per detector	[1]

ELECTRONICS & SIGNAL

Relay outputs	4 O/NC for alarm column; 4 parallel NO/NC for interlock	[1]

MECHANICAL

Overall dimensions (W × D × H)	104 × 40 × 225 cm	[1]
Weight	360 kg	[1]

GENERAL

False alarm rate	Below 1/10,000 with alarm threshold at 5 σ	[1]
Lead shielding	10 mm	[1]
Measurement trigger	Integrated camera detects person passage	[2]

Sources

[1] **PPM – Pedestrian radiation portal monitor (datasheet)**
ELSE NUCLEAR · datasheet · p. 2; p. 2 – accessories available upon request · checked 2026-10-16
https://www.elsenuclear.com/wp-content/uploads/2025/05/DAT_PPM_EN_1.06.pdf

[2] PPM
ELSE NUCLEAR · product-page · product page · checked 2026-10-16
https://www.elsenuclear.com/portfolio/ppm/

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.