LUDLUM

Model 52-1/52-5/52-6

Portable personnel portal

A portable portal monitor for beta/gamma screening of people at temporary checkpoints.



Detector type	Energy range	IP rating
Plastic scintillators [1]	**30 keV–3 MeV** [1]	**Standard IP40; with sleeve/W version IP54** [1]

Specifications

DETECTOR

Radiation	Standard: beta/gamma; W versions: gamma only	[1]
Detector type	Plastic scintillators	[1]
Detector count (52-1 / 52-5 / 52-6)	4 / 5 / 6	[2]
Total detector volume (52-1 / 52-5 / 52-6)	11 / 12.8 / 14.6 L	[2]

MEASURING RANGE

Energy range	30 keV–3 MeV	[1]

CONNECTIVITY & INTERFACE

Communication	RS-232; relay output	[1]

POWER & BATTERY

Power supply	85–250 V AC, 50/60 Hz; 12 V DC; 3 or 6 D batteries	[1]
Battery life, typical	3 batteries: 28 h; 6: 69 h	[1]

MECHANICAL

Weight	52-1 and 52-1-1: approx. 32 kg (45 kg in case); 52-5 and 52-5-1: approx. 36 kg (50 kg in case); 52-6 and 52-6-1: approx. 41 kg (54 kg in case)	[3]

ENVIRONMENT & RATINGS

IP rating	Standard IP40; with sleeve/W version IP54	[1]

GENERAL

Clear opening (H × W)	206 × 61 cm; -1 versions: 206 × 81 cm	[2]
Measurement modes	Walk-through or stop-and-count	[1]
Count time	0–20 s; 0 = walk-through	[1]

Sources

[1] **Model 52-1, 52-5 & 52-6 Series Portable Portal Monitors (data sheet)**
Ludlum Measurements · datasheet · p. 1, Introduction and Water-Resistant Versions; p. 1, Features; p. 2, Specifications · checked 2026-10-16
https://ludlums.com/images/data_sheets/M52-1_52-5_52-6_Series.pdf

[2] **Model 52-1, 52-5 & 52-6 Series Portable Portal Monitors**
Ludlum Measurements · product-page · Available Configurations table; Specifications tab (Detectors); Available Configurations table (Inside Dimensions H x W) · checked 2026-10-16
https://ludlums.com/products/all-products/product/model-52-1-52-5-52-6-series

[3] **Ludlum Model 52-1, 52-4, 52-5 & 52-6 Series manual**
Ludlum Measurements · manual · Manual p. 13 (p. 2-2), section 2 Specifications · checked 2026-10-16
https://ludlums.com/images/product_manuals/M52-1_&_M52-4_&_M52-5_&_M52-6_Series.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.