LUDLUM

Ludlum 2241-4

Portable neutron meter

Ludlum 2241-4 – portable neutron meter from Ludlum Measurements. Measurement range: 0 to 100 mSv/h (0 to 10,000 mrem/hr).



Detector
2 atm ³He tube (LND 25185 or equivalent) in Model 42-31H neutron detector [1]

Measurement range
0 to 100 mSv/h (0 to 10,000 mrem/hr) [2]

Weight as specified
Meter: 1.6 kg including batteries; detector: 6.56 kg [2]

Specifications

DETECTOR

Detector	2 atm ³He tube (LND 25185 or equivalent) in Model 42-31H neutron detector	[1]

MEASURING RANGE

Measurement range	0 to 100 mSv/h (0 to 10,000 mrem/hr)	[2]
Neutron sensitivity (bare ²⁴¹AmBe)	Typically 10 cpm per µSv/h (100 cpm per mrem/hr)	[1]

CONNECTIVITY & INTERFACE

Detector connector	Series "C" (others available)	[2]

POWER & BATTERY

Power supply	Two "D" cell batteries	[2]
Battery life and conditions	Typically 200 hours; low-battery symbol alert (instrument operates for approximately 24 hours after the symbol first appears)	[2]

MECHANICAL

Dimensions as specified	Meter (H × W × L): 16.5 × 8.9 × 21.6 cm; detector (H × W × D): 26.2 × 22.9 × 22.9 cm, including brackets	[2]
Weight as specified	Meter: 1.6 kg including batteries; detector: 6.56 kg	[2]

ENVIRONMENT & RATINGS

Operating temperature	-20 to 50 °C	[2]
Enclosure rating and conditions	IP53	[2]

GENERAL

Moderator	22.9 cm diameter cadmium-loaded polyethylene sphere	[2]

Sources

[1] **Model 2241-4 Neutron Dose Ratemeter (data sheet)**
Ludlum Measurements · datasheet · Detector Specifications, 'Detector'; Specifications – Sensitivity · checked 2026-10-16
https://ludlums.com/images/data_sheets/M2241-4.pdf

[2] **Model 2241-4 Neutron Dose Survey Meter**
Ludlum Measurements · product-page · Specifications tab, 'Measurement Range'; Specifications tab, 'Power'; Specifications tab, 'Battery Life' · checked 2026-10-16
https://ludlums.com/products/all-products/product/model-2241-4

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.