LUDLUM

Ludlum 30-7B

Portable neutron meter

Ludlum 30-7B – portable neutron meter from Ludlum Measurements. Detector: ^{3}He proportional detector. Measurement range: 0 to 99.9 mSv/h (0 to 9.99 rem/hr).



Detector	Measurement range	Weight as specified
^{3}He proportional detector [1]	**0 to 99.9 mSv/h (0 to 9.99 re m/hr)** [2]	**Display Unit: 174 g Detector: .6 kg** [2]

Specifications

DETECTOR

Detector	^{3}He proportional detector	[1]

PERFORMANCE

Linearity	±10 %	[2]

MEASURING RANGE

Measurement range	0 to 99.9 mSv/h (0 to 9.99 rem/hr)	[2]
Response time	User-selectable from 1 to 60 seconds, Auto-Response Rate FAST or SLOW, o r Fixed FAST and SLOW	[2]
Neutron sensitivity (bare AmBe)	Typically 4.5 cpm per µSv/h (45 cpm per mrem/hr)	[2]

POWER & BATTERY

Power supply	Two alkaline or two rechargeable “AAA” batteries	[2]
Battery life and conditions	Approximately 100 hours of operation	[2]

MECHANICAL

Dimensions as specified	Display unit: 8.5 × 8.0 × 4.8 cm (H × W × L); detector: 19.5 cm diameter REM ball with ^{3}He detector (1.6 × 2.5 cm, D × L)	[1]
Weight as specified	Display Unit: 174 g Detector: 4.6 kg	[2]

ENVIRONMENT & RATINGS

perating temperature	-20 to 50 °C	[2]
Enclosure rating and conditions	IP52 with audio-hole seal option	[2]

ORDERING & ACCESSORIES

Part number	48-4309	[2]

Sources

[1] **Model 30-7 Series – Lightweight Digital Neutron Detector (data sheet, Apr 2024)**
Ludlum Measurements · datasheet · Specifications, 'Detector'; Specifications, 'Size' · checked 2026-10-16
https://ludlums.com/images/data_sheets/M30-7-series.pdf

[2] **Model 30-7 Series – Lightweight Digital Neutron Survey Meter**
Ludlum Measurements · product-page · Specifications tab, 'Measurement Range'; Specifications tab, 'Linearity'; Specifications tab, 'Power' · checked 2026-10-16
https://ludlums.com/products/all-products/product/model-30-7-series

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.