LUDLUM

Ludlum 2401-ECA

Handheld survey meter

Ludlum 2401-ECA – handheld survey meter from Ludlum Measurements. Detector: Energy-compensated GM tube (integrated). Weight as specified: 0.4 kg including battery.



Detector	Weight as specified	Count-rate range
Energy-compensated GM tube (integrated) [1]	**.4 kg including battery** [1]	**0–210,000 cpm** [1]

Specifications

DETECTOR

Detector	Energy-compensated GM tube (integrated)	[1]

MEASURING RANGE

Sensitivity (^{137}Cs gamma)	Typically 1050 cpm per mR/hr	[1]
Response time	Typically 11 s from 10 % to 90 % of final reading	[1]
Exposure rate range	0–200 mR/hr	[1]
Count-rate range	0–210,000 cpm	[1]
Energy response	Reading within 20% of true value	[1]

POWER & BATTERY

Power supply	9 V battery	[1]
Battery life and conditions	Typically 250 hours with alkaline battery at normal background levels	[1]

MECHANICAL

Dimensions (H × W × L)	4.6 x 8.4 x 13.5 cm	[1]
Weight as specified	0.4 kg including battery	[1]

ENVIRONMENT & RATINGS

perating temperature	−20 to +50 °C (−4 to 122 °F); may be certified for operation from −40 to +65 °C (−40 to 150 °F)	[3]

GENERAL

Alarm	Yes - audible and visual, user-adjustable from 0 to full-scale meter deflection (red alarm LED and steady tone)	[2]

Sources

[1] **Model 2401-ECA Pocket-Size Survey Meter with Alarm**
Ludlum Measurements · product-page · Specifications tab, 'Detector'; Features; Specifications tab, 'Sensitivity (137Cs gamma)'; Specifications tab, 'Power' · checked 2026-10-16
https://ludlums.com/products/all-products/product/model-2401-eca

[2] **Model 2401-ECA Gamma Survey Ratemeter (data sheet)**
Ludlum Measurements · datasheet · Specifications, 'Alarm' · checked 2026-10-16
https://ludlums.com/images/data_sheets/M2401-ECA.pdf

[3] **Ludlum Models 2401-ECA, 2401-EWA, 2401-EC2A and 2401-PA manual**
Ludlum Measurements · manual · Manual p. 15 (p. 5-1), section 5, Environmental Conditions for Normal Use · checked 2026-10-16
https://ludlums.com/images/product_manuals/M2401-ECA_&_M2401-EWA_&_M2401-EC2A_&_M2401-PA.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.