LUDLUM

Model 3002/FM Series

Alpha-beta floor monitor

Floor monitor that surveys large areas for alpha and beta contamination. The Model 3002 meter is combined with two alpha-beta scintillation detectors on a rolling pole, which gives a gasless alternative to gas flow detectors. Alpha and beta are counted simultaneously and heard as different tones.



Meter
Model 3002 Alpha-Beta Survey Meter [1]

Detector height above the floor
Adjustable from 0 to 16 mm [1]

Temperature range
-20 to 50 °C [1]

Specifications

Meter	Model 3002 Alpha-Beta Survey Meter	[1]
Detector height above the floor	Adjustable from 0 to 16 mm	[1]
Temperature range	-20 to 50 °C	[1]

Models

Model	Part number	Detectors	Active area	Total window width
3002/FM1	48-4037-1 [1]	2 ea. Model 43-147 alpha-beta scintillation detectors [1]	Active 400 cm², open 352 cm² [1]	22.4 cm [1]
3002/FM2	48-4037-2 [1]	2 ea. Model 43-147 alpha-beta scintillation detectors [1]	Active 400 cm², open 352 cm² [1]	40.9 cm [1]
3002/FM3	48-4037-3 [1]	2 ea. Model 43-204-2 alpha-beta scintillation detectors [1]	Active 1080 cm², open 960 cm² [1]	65.7 cm [1]

Model	Detection efficiency (4π)	Dimensions	Weight
3002/FM1	Pu-239 20%, Tc-99 15%, Sr-90/Y-90 20% [1]	76 x 40 x 137 cm (H x W x L) [1]	5 kg [1]
3002/FM2	Pu-239 20%, Tc-99 15%, Sr-90/Y-90 20% [1]	76 x 60 x 137 cm (H x W x L) [1]	5.6 kg [1]
3002/FM3	Pu-239 18%, Tc-99 10% [1]	76 x 86 x 154 cm (H x W x L) [1]	11.2 kg [1]

Sources

[1] **Model 3002/FM Series Alpha-Beta Floor Monitor**
Ludlum Measurements · product-page · Specifications – Meter; Specifications – Detector Height; Specifications – Temperature Range · checked 2026-11-17
https://ludlums.com/products/all-products/product/model-3002-fm-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.