BERTIN

SaphyRAD probes

Alpha and beta probes for the SaphyRAD contamination meter

Smart external probes for the SaphyRAD contamination monitor to inspect small or large areas for alpha, beta or alpha and beta contamination. All probes have a proximity sensor and radiation alarm, and a floor stand turns them into a mobile clearance checkpoint.



Active area	Measurement range	Energy range
32 cm² (A 32), 31 cm² (AB 31), 100 cm² (AB 100, A-B 100), 170 cm² (AB 170, A-B 170, A-BG 170) [1]	**α: 0.01–100 Bq/cm²; β and α+β: 0.1–1,000 Bq/cm²; AB 31: .1–2,150 Bq/cm²** [1]	**α: 3–8 MeV; β: 100 keV–2.2 MeV** [1]

Specifications

DETECTOR

Detector type	A 32: ZnS (α); AB 31: double GM pancake (α+β); AB 100 and AB 170: thin plastic scintillator (α+β); A-B 100 and A-B 170: ZnS + thin plastic scintillator (separate α and β channels); A-BG 170: ZnS + thick plastic scintillator (α, and β and γ)	[1]
Active area	32 cm² (A 32), 31 cm² (AB 31), 100 cm² (AB 100, A-B 100), 170 cm² (AB 170, A-B 170, A-BG 170)	[1]
Proximity sensor and alarm	Proximity sensor and radiation alarm on all probes	[1]

MEASURING RANGE

Sensitivity (c/s/Bq)	A 32: 0.16 (^{239}Pu); AB 31: 0.21 (^{36}Cl); AB 100: 0.29 (^{36}Cl); A-B 100: α 0.14 (^{241}Am), β 0.23 (^{36}Cl); AB 170: 0.29 (^{36}Cl); A-B 170: α 0.15, β 0.25; A-BG 170: α 0.16, β 0.28	[1]
Measurement range	α: 0.01–100 Bq/cm²; β and α+β: 0.1–1,000 Bq/cm²; AB 31: 0.1–2,150 Bq/cm²	[1]
Energy range	α: 3–8 MeV; β: 100 keV–2.2 MeV	[1]

MECHANICAL

Dimensions	A 32: 264 × 119 × 123 mm; AB 31: 124 × 74 × 190 mm; 100 cm² probes: 293 × 119 × 121 mm; 170 cm² probes: 308 × 143 × 128 mm (L × W × H)	[1]
Weight	A 32 and 100 cm² probes: 600 g; AB 31: 630 g; 170 cm² probes: 740 g	[1]

ORDERING & ACCESSORIES

Models	A 32, AB 31, AB 100, A-B 100, AB 170, A-B 170, A-BG 170	[1]

GENERAL

Instrument	SaphyRAD C	[1]

Sources

[1] SaphyRAD probes
Bertin Technologies · product-page · Product page; Product page – Characteristics of the probes · checked 2026-10-16
https://www.bertin-technologies.com/product/contamination-meters/saphyrad-innovative-probes/

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.