BERTIN · BERTIN VF NUCLEAR

PAM-100 / PAM-170

Portable activity meters

Portable activity meters for measuring alpha, beta and gamma contamination on surfaces.



Detector type
Plastic scintillator and/or ZnS(Ag), variant dependent [1]

Active area
PAM-100: 100 cm²; PAM-170: 170 cm² [1]

Specifications

DETECTOR

Detector type	Plastic scintillator and/or ZnS(Ag), variant dependent	[1]
Radiation by variant	A: alpha; B: alpha+beta; C: separate alpha/beta; D: alpha+beta+gamma; E: separate alpha and beta+gamma	[1]
Active area	PAM-100: 100 cm²; PAM-170: 170 cm²	[1]

MEASURING RANGE

Dose-rate range, G versions	100 nSv/h–500 mSv/h; G versions only	[2]

POWER & BATTERY

Battery life	Approx. 120 h without backlight	[1]
PAM-100 weight with batteries	1.1 kg	[1]
PAM-170 weight with batteries	<1.4 kg	[2]
Power supply	2 C batteries, alkaline/NiMH; alternatively service cable	[1]

MECHANICAL

PAM-100 dimensions (W × H × D)	124 × 111 × 225 mm	[1]
PAM-170 dimensions (W × H × D)	130 × 129 × 226 mm	[2]

ENVIRONMENT & RATINGS

perating temperature	–20 to +40 °C	[1]

ORDERING & ACCESSORIES

Models	PAM-100A–E and PAM-170A–E; G versions add dose rate	[1]

GENERAL

Measurement modes	Ratemeter and Contamat	[1]

Models

Model	Active area	Contamination channels (separated by /)	Gamma background response	Internal gamma dose-rate detector
PAM-100A	100 cm² [1]	α [1]	Suppressed gamma sensitivity [1]	None [1]
PAM-100AG	100 cm² [1]	α [1]	Suppressed gamma sensitivity [1]	Integrated GM tube [1]
PAM-100B	100 cm² [1]	α + β [1]	Suppressed gamma sensitivity [1]	None [1]
PAM-100BG	100 cm² [1]	α + β [1]	Suppressed gamma sensitivity [1]	Integrated GM tube [1]
PAM-100C	100 cm² [1]	β / α [1]	Suppressed gamma sensitivity [1]	None [1]
PAM-100CG	100 cm² [1]	β / α [1]	Suppressed gamma sensitivity [1]	Integrated GM tube [1]
PAM-100D	100 cm² [1]	α + β + γ [1]	Increased gamma sensitivity [1]	None [1]
PAM-100DG	100 cm² [1]	α + β + γ [1]	Increased gamma sensitivity [1]	Integrated GM tube [1]
PAM-100E	100 cm² [1]	β + γ / α [1]	Increased gamma sensitivity [1]	None [1]
PAM-100EG	100 cm² [1]	β + γ / α [1]	Increased gamma sensitivity [1]	Integrated GM tube [1]
PAM-170A	170 cm² [2]	α [2]	Suppressed gamma sensitivity [2]	None [2]
PAM-170AG	170 cm² [2]	α [2]	Suppressed gamma sensitivity [2]	Integrated GM tube [2]
PAM-170B	170 cm² [2]	α + β [2]	Suppressed gamma sensitivity [2]	None [2]
PAM-170BG	170 cm² [2]	α + β [2]	Suppressed gamma sensitivity [2]	Integrated GM tube [2]
PAM-170C	170 cm² [2]	β / α [2]	Suppressed gamma sensitivity [2]	None [2]
PAM-170CG	170 cm² [2]	β / α [2]	Suppressed gamma sensitivity [2]	Integrated GM tube [2]
PAM-170D	170 cm² [2]	α + β + γ [2]	Increased gamma sensitivity [2]	None [2]
PAM-170DG	170 cm² [2]	α + β + γ [2]	Increased gamma sensitivity [2]	Integrated GM tube [2]
PAM-170E	170 cm² [2]	β + γ / α [2]	Increased gamma sensitivity [2]	None [2]
PAM-170EG	170 cm² [2]	β + γ / α [2]	Increased gamma sensitivity [2]	Integrated GM tube [2]

Model	Dimensions (W × H × D)	Weight with batteries	Gamma dose-rate range
PAM-100A	124 × 111 × 225 mm [1]	1.1 kg [1]	–
PAM-100AG	124 × 111 × 225 mm [1]	1.1 kg [1]	100 nSv/h–500 mSv/h [1]

PAM-100B	124 × 111 × 225 mm [1]	1.1 kg [1]	–
PAM-100BG	124 × 111 × 225 mm [1]	1.1 kg [1]	100 nSv/h–500 mSv/h [1]
PAM-100C	124 × 111 × 225 mm [1]	1.1 kg [1]	–
PAM-100CG	124 × 111 × 225 mm [1]	1.1 kg [1]	100 nSv/h–500 mSv/h [1]
PAM-100D	124 × 111 × 225 mm [1]	1.1 kg [1]	–
PAM-100DG	124 × 111 × 225 mm [1]	1.1 kg [1]	100 nSv/h–500 mSv/h [1]
PAM-100E	124 × 111 × 225 mm [1]	1.1 kg [1]	–
PAM-100EG	124 × 111 × 225 mm [1]	1.1 kg [1]	100 nSv/h–500 mSv/h [1]
PAM-170A	130 × 129 × 226 mm [2]	<1.4 kg [2]	–
PAM-170AG	130 × 129 × 226 mm [2]	<1.4 kg [2]	100 nSv/h–500 mSv/h [2]
PAM-170B	130 × 129 × 226 mm [2]	<1.4 kg [2]	–
PAM-170BG	130 × 129 × 226 mm [2]	<1.4 kg [2]	100 nSv/h–500 mSv/h [2]
PAM-170C	130 × 129 × 226 mm [2]	<1.4 kg [2]	–
PAM-170CG	130 × 129 × 226 mm [2]	<1.4 kg [2]	100 nSv/h–500 mSv/h [2]
PAM-170D	130 × 129 × 226 mm [2]	<1.4 kg [2]	–
PAM-170DG	130 × 129 × 226 mm [2]	<1.4 kg [2]	100 nSv/h–500 mSv/h [2]
PAM-170E	130 × 129 × 226 mm [2]	<1.4 kg [2]	–
PAM-170EG	130 × 129 × 226 mm [2]	<1.4 kg [2]	100 nSv/h–500 mSv/h [2]

Sources

[1] PAM-100 Portable Activity Meter – datasheet
Bertin Technologies · datasheet · p. 2 – types of monitors; p. 2; p. 1 · checked 2026-10-16
https://www.vfnuclear.com/user_uploads/dms/VF1903250277_PAM-100_datasheet.pdf

[2] PAM-170 Portable Activity Meter – datasheet
Bertin Technologies · datasheet · p. 2; p. 2, 'Specifications' table; p. 2, 'Types of monitors' table · checked 2026-10-16
https://www.vfnuclear.com/user_uploads/dms/VF1902180263_PAM-170_datasheet.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.