BERTIN

AlphaE

Ultra-small radon meter for concentration, personal exposure and dose

Professional handheld radon meter for fast, time-resolved monitoring in buildings, outdoors and in mines. It is small and light enough to survey personal radon exposure and doses at workplaces, and the battery lasts up to six months. Typically 80% of the final result is reached after two hours.



Detector type	Measurement range	Weight
Diffusion chamber with silicon diode [1]	**20 Bq/m³–10 MBq/m³** [1]	**165 g** [1]

Specifications

DETECTOR

Detector type	Diffusion chamber with silicon diode	[1]
Additional sensors	Air temperature, humidity and pressure, tamper detection	[1]

MEASURING RANGE

Measurement range	20 Bq/m³–10 MBq/m³	[1]
Detector sensitivity	3 cph at 100 Bq/m³	[1]
Response time	Typically 80% of the final result after 2 hours (faster for higher values)	[1]

CONNECTIVITY & INTERFACE

Data storage	8,500 data sets (approx. 6–4,250 days depending on measuring cycle)	[1]
Communication	USB (cable incl. charging unit)	[1]
Display	6-digit LCD + 5-digit alphanumeric, backlight	[1]

POWER & BATTERY

Battery life	Up to 6 months, rechargeable via USB; permanent operation via USB possible	[1]

MECHANICAL

Dimensions	108 × 68 × 30 mm	[1]
Weight	165 g	[1]
Housing material	Aluminium	[1]

ORDERING & ACCESSORIES

Accessories	Suitcase, wall support, dust protection, radon-permeable silicone bag, belt pouch and DataVIEW Light and DataVIEW PRO software	[1]

GENERAL

Calibrator error	10%	[1]
Measurement cycle	Adjustable from 1 min to 12 h	[1]
Dose calculation	With user-settable factors for equilibrium and dose conversion	[1]

Sources

[1] **AlphaE – Ultra-Small radon monitor**
Bertin Technologies · product-page · Product page – Datasheet tab; Product page – Datasheet tab; Benefit tab; Product page · checked 2026-10-16
https://www.bertin-technologies.com/product/radon-professional-monitoring/radon-alphae/

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.