

AlphaGUARD

Portable Radon Lab



The reference instrument in radon monitoring

The new generation of AlphaGUARD offers high detection efficiency in radon Monitoring. AlphaGUARD incorporates a pulse-counting ionization chamber (alpha spectroscopy). Through optimal geometry of the chamber and intelligent signal evaluation this radon monitor is suitable for continuous monitoring of radon concentrations between 2 – 2 000 000 Bq/m³. AlphaGUARD offers high detection efficiency, a wide measurement range, fast response and permanent, maintenance-free operation with long-term stable calibration. No pump is required when operating in diffusion mode (e.g. long-term monitoring) and the instrument is insensitive to both, high humidity and vibrations.

In addition to the radon concentration, AlphaGUARD simultaneously measures and records ambient temperature, relative humidity and atmospheric pressure with embedded sensors.

Optimal ergonomics, high responsiveness and a large digital display make AlphaGUARD a reference device to perform measurement and analysis everywhere from a lab to the field..

FEATURES

- All-in-one solution featuring a large digital display
- High sensitivity, strong reliability
- Up-to-date connectivity
- Suitable for any Radon measurement task

AlphaGUARD

TECHNICAL FEATURES

TYPE OF DETECTOR	Ionization chamber
MEASUREMENT PRINCIPLE	3D Alpha spectroscopy and current mode
MEASUREMENT MODES*	diffusion, flow or sampling
MEASURING RANGE*	From 2 to 2.000.000 Bq/m ³ (from 0.027 pCi/l to 54 nCi/l)
DISPLAY	Graphic display, backlight
ADDITIONAL SENSORS	T, P, H, Reloc, QA, ext. sensors
AUTONOMY	> 10 days (diffusion mode)
DIMENSIONS	14.2 x 13.2 x 4.8 in (360 x 335 x 123 mm)
WEIGHT	15.4 lb. (7 Kg)

* According to the product version

Applications



Research & Specific applications, calibration labs



Nuclear & NORM industries (mining, nuclear waste, oil & gas industry).



Monitoring Radon in homes & workplaces



Soil Measurement

Emanations from underground are measured with the soil probe



Water Measurement

Radon gas in water is controlled with AquaKIT.



Calibration facilities



Radon Progenies

Radon progeny concentration is measured with AlphaPM



Air Measurement

Thoron gas discrimination and measurement mode available



In combination with the radon chamber, AlphaGUARD allows the measurement of radon in material and the calibration of any other radon instruments

