

"ALPHARAD PLUS"

RADON, THORON & THEIR PROGENY MONITOR



- Measurement of radon and thoron concentration and effective equivalent concentration (EEC):
- In the air
- In the indoor air of residential, public and industrial buildings and structures
- Measurement of radon in drinking water sources
- Measurements of radon flux from the soil surface at land plots allocated for construction of houses, public buildings and industrial facilities
- Measurements of radon concentration in soil air

Physical characteristics

Detector:

- Silicon

Measurement range:

EEC measurement:

- Measurement range of radon EEC:
 $1.0 \div 1.0 \cdot 10^6 \text{ Bq} \cdot \text{m}^{-3}$
- Measurement range of thoron EEC:
 $0.5 \div 1.0 \cdot 10^4 \text{ Bq} \cdot \text{m}^{-3}$
- Air flow through the filter:
 $10.0 \pm 0.5 \text{ l/min}$

Concentration measurement:

- Measurement range of radon-222 concentration in air: $1.0 \div 2.0 \cdot 10^6 \text{ cps}$
- Measurement range of $^{216}\text{Po}(\text{ThA})$:
 $1 \cdot 10^{-3} \div 1 \cdot 10^2 \text{ cps}$
- Air sampler flow rate:
 $1.0 \pm 0.2 \text{ l/min}$
- Measurement range of radon-222 concentration in water samples: $6 \div 800 \text{ Bq} \cdot \text{kg}^{-1}$

- Measurement range of radon-222 flux from soil surface: $20 \div 10^3 \text{ mBq/s} \cdot \text{m}^2$
- Measurement range of radon-222 concentration with preliminary sampling of air using air samplers: $20 \div 10^7 \text{ Bq} \cdot \text{m}^{-3}$
- Measurement range of radon-222 concentration in samples of soil air $10^3 \div 10^6 \text{ Bq} \cdot \text{m}^{-3}$

Operation temperature range:

- $1 \div 35 \text{ }^\circ\text{C}$

Electrical characteristics

Power supply:

- 8.0 VA

Mechanical characteristics

Overall dimensions, weight:

- $220 \times 200 \times 165 \text{ mm}$, 3.6 kg