

Active Carbon Adsorption Radon Meter

This active carbon adsorption radon meter accurately measures radon concentration using active carbon adsorption technology. It features data storage, replay functions, a USB communication port, and a special active carbon catching device.



Product Overview

Precision Radon Measurement

The Active Carbon Adsorption Radon Meter is a specialized instrument designed for the accurate measurement of soil radon concentration and radon exhalation rates. It is an essential tool for identifying radioactive anomalies and conducting environmental appraisals. Built for reliability and portability, this device provides the high-sensitivity data required for professional environmental monitoring and research applications.

Measurement Capabilities

Radon Concentration Range

100 Bq/m³

Min Concentration

100000 Bq/m³

Max Concentration

Radon Exhalation Rate Range

0.001 Bq/m²-s

Min Rate

1 Bq/m²-s

Max Rate

Performance Specifications

Technical Performance Metrics

| Metric | Value |
|---------------|---|
| Sensitivity | $\leq 1.5 \times 10^{-1}$ (Bq/L) [†] |
| Energy Valve | 50 keV |
| Non-linearity | ±10% |
| Repetition | ±10% |
| Stability | ±5% |

Operational Environment

Operating Conditions

- Temperature: 0°C to 40°C
- Humidity: ≤90% (at 40°C)

Physical Dimensions

Dimensions and Weight

| Component | Size | Weight |
|----------------------|--------------------|--------|
| Outside Surface Unit | 34cm x 15cm x 20cm | 25 kg |
| Control Panel | 50cm x 31cm x 22cm | 1.5 kg |