



## **RADON MAPPER**



RADON MAPPER is a versatile instrument for **radon and thoron measurement**, based on a scintillation cell detector.

**Data are real-time available** on the LCD display or on devices (smartphone, tablet, PC) connected via WiFi.

No need to set an integration time, **data are collected every minute**. All data are immediately visible in graphic and/or in tabular form.

The **user-friendly interface** is accessible through standard computer browsers via network cable or WiFi protocol, no software is required.

**Data storage on Cloud** through WiFi or mobile connectivity with Web interface. Personal data area without space limits.



# **Applications**

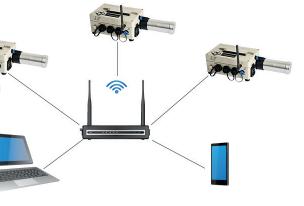
- Radon surveys
- Continuous monitoring
- Mitigations
- Radon in water and soil
- Correlation studies





#### **Features**

- Radon in air passive or active sampling
- Radon in water: 10 minutes sample analysis or continuous measurement
- Radon in soil: active sampling probe
- Thoron: automatic routine to assess both radon and thoron concentration







## **RADON MAPPER**

## **Technical Specifications**

**CALIBRATION:** traceable to NIST

**DETECTOR**: Scintillation cell ZnS(Ag), 255 ml, interchangeable head:

• head for passive sampling with diffusion filter

• head for active sampling with airtight connectors

SENSITIVITY: 0.034 cpm/Bq/m<sup>3</sup>
RANGE: from 5 to 3.000.000 Bq/m<sup>3</sup>

**STABILITY:** 2% within 24 months at 1 kBq/m<sup>3</sup>

PUMP: membrane pump, electronic flux control, range 0.3 - 0.9 lpm.

**SENSORS** 

Temperature: range -40 +125 °C accuracy 1 °C

Atmospheric pressure: range 750 - 1100 hPa accuracy ± 2 hPa

Relative humidity: range 0-100% accuracy ± 3%

Differential pressure, resolution 0.1 Pa Other sensors available (CO2, O2...)

MEMORY: Memory card 4 GB, more than ten years dataset

**PHYSICAL SPECIFICATIONS:** Dimensions 41 x 16 x 13 cm - Weight 3.5 kg (main unit)

**OPERATING CONDITIONS:** 

Temperature -10/+50 °C

Humidity 0-90 % (without condensation)

**COMMUNICATION** 

10/100 Mbps RJ45 IEEE 802.3

LCD back lighted 16 characters x 2 rows

2 USB ports type A ver. 2.0 480 Mbps

WiFi IEEE 802.11g internal adaptor with external antenna

**POWER** 

Mains: supplier input 100/230 Vac output 12 Vdc 1.5 A

Internal battery autonomy 8 h

Internal PoE splitter

