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Radon detectors

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.

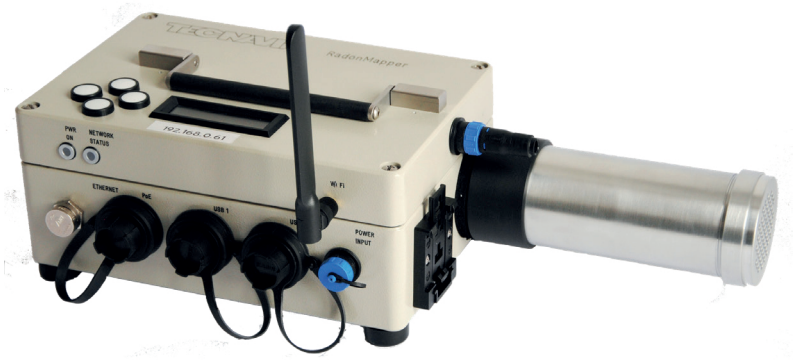
No need to set an integration time, **data are collected every minute**. All data are immediately visible in graphic and/or in tabular form.

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.

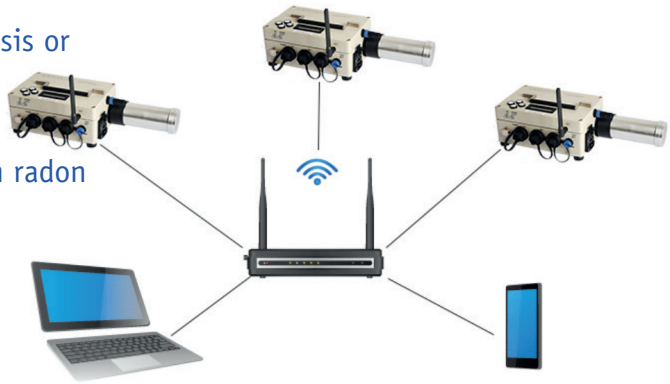
Applications

- 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



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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^3

RANGE: from 5 to 3.000.000 Bq/m^3

STABILITY: 2% within 24 months at 1 kBq/m^3

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

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