

## RADHOME II

○ FOR THE MEASUREMENT OF THE VOLUMIC ACTIVITY OF RADON\* IN RESIDENCES.

### □ APPLICATIONS

- Monitoring the atmospheric environment of residences or other buildings.



- Passive measurement, no disturbance to the surroundings atmosphere.
- Measurement by integration of radon fluctuations over 24 hours.
- Easy to read liquid crystal display.
- Satisfies measurement criteria defined in the French ministerial circular relating to the management organisation of risks associated with radon.
- Takes account of thresholds associated with old and new buildings.
- Measurement starts automatically when switched on.
- Minimum 3 months' independent operation.
- Independent operation using 2 x 1.5 Volt alkaline batteries.
- Small size.
- Supplied with carrying case.

**Specifications**



\* in this document, the term RADON designates radon 222.

**Measuring cycle :**

Measurement starts as soon as the device is switched on.

Switching on initiates the balancing of the measurement cell with the ambient air. This phase lasts for 2 hours.

At the end of this period, radon measuring begins and continues for 22 hours.

Throughout this period, Radhome II indicates "measurement in progress" and displays the length of time the measurement has been taking place.

At the end of the measuring period, the result remains displayed until the instrument is switched off.

**Radon measurement :**

Radon enters a detection volume through a cellulose filter which stops all the solid daughter products.

The sensor is an implanted silicon detector sensitive to the alpha particles generated by the radon and by its daughter products present inside the detection volume.

**Indications on the display screen :**

When the instrument is switched on, three messages can appear:

- "measurement in progress" to signify that the measurement has indeed begun,
- "batteries weak" lasting for 5 seconds indicating that the batteries must soon be changed,
- "change the batteries" remains on the screen indicating that the batteries must be changed before another measurement can start.

**Measurement sensitivity :**

Radon: 50 Bq.m<sup>-3</sup> per imp.h<sup>-1</sup> (typically)

**Settings :**

Switch adjustments to the measurement thresholds for a new or for an old building in order to satisfy the measurement criteria defined in the French ministerial circular relating to the management organisation of risks associated with radon.

**Display :**

Liquid crystal screen displaying 4 lines of 16 characters.

**Power supply :** 2 x type D internal alkaline batteries.

**Operating time :** 3 months, at 20°C

**Operating temperature :** 0°C à +40°C

**Casing :** EMC metal casing

**Size :** H\*L\*w 70\*270\*230mm

**Weight :** 2 kg (including 2 alkaline batteries)

**The Radhome II is supplied complete with :**

- a carrying case,
- a user's handbook.