



U-SERIES

RADON

RADON MEASUREMENT KIT
INSTRUCTIONS FOR USE



RADON IS A COLORLESS, ODORLESS, TASTELESS
BUT ABOVE ALL **RADIOACTIVE NATURAL GAS**

RADON IS THE SECOND LEADING CAUSE
OF **LUNG CANCER** AFTER SMOKING

1. KIT CONTENTS

THE MEASURING DEVICE IN ITS PACKAGING

The dosimeter inside the plastic bag is a CR-39 closed type trace detector with a polystyrene diffusion chamber. The dosimeter emits no substances or radiation and requires no power supply.

Place the dosimeter within 15 days of receipt; if not possible, keep it in the freezer.
Do not open the package containing the dosimeter before the beginning of exposure.
Do not open the detector.

Keep the plastic bag: you will need it to insert the dosimeter at the end of the exposure.

THE CABLE TIE AND THE ADHESIVE SQUARE

They can be useful for hanging and fixing the dosimeter in the place where you decide to take the measurement (see section **PLACE OF INSTALLATION**).

THE BOX

Keep the box: you will need it to return the dosimeter.
Fill in the form inside the box before returning the kit for analysis.

2. PLACE OF INSTALLATION

The best rooms to consider when assessing the radon level in a home are the bedroom and the living room; it is recommended to avoid rooms with the presence of water (such as bathrooms or kitchens).

The detector must be placed in the environment in which you want to measure the radon concentration away from heat sources (radiators, electrical devices, direct sun) and water pipes. The dosimeter can be suspended with the cable tie or placed on a non-expiring surface such as a piece of furniture, a shelf, etc. and it should not be moved during the entire exposure period.

In a building the radon level generally varies between one floor and the other: on the lower floor or on underground floors, where the contact with the ground is more important, it is more likely to find higher concentration levels of radon.

In the case of a house distributed on a single floor, a measurement in one room is generally sufficient; for multi-storey houses it is advisable to make a single measurement on the lower inhabited floor.

It is understood that measurements can be performed in several rooms spread over several floors of the house, in order to conduct more precise investigations.



3A. INSTALLATION CONDITIONS

The radon detector (dosimeter) is sealed inside a plastic bag. Once you have decided where to place the detector, you can start the measurement: open the bag using the plastic zipper and take the dosimeter (no need to use gloves). Insert the cable tie into the dosimeter loop and into the adhesive square if you plan to use it to fix the detector.

Place the dosimeter in the room you have chosen. Write the start date of the investigation and the detector identification code in the form inside the box.

Place the dosimeter at a height between 1 and 2 meters from the ground, in a free place, so not inside drawers or wardrobes: it is important to leave at least 20 cm of free space around the dosimeter.

3B. DURATION OF EXPOSURE

To avoid overestimating or underestimating the exposure concentration - remember that radon is affected by the degree of ventilation in the premises - it is advisable to take measurements in winter and to avoid long periods when the premises are uninhabited.

Leave the detector in place for 2 months.

The exposure or measurement period is a parameter necessary for the calculation of the concentration, it is therefore essential to indicate in the box the start date and the end date of the measurement.

4. POSTAL DELIVERY OF THE BOX

At the end of the period, write the end of exposure date in the form inside the box. Cut the cable tie and insert the dosimeter in the plastic bag in which it was originally sent and close the bag using the plastic zipper. Put the bag with the dosimeter inside the box: this must be sent to the laboratory for analysis.

Fill in the form with all other required data, close the box with tape and send the package to the address printed on the back.

Please send the detector within a few days of the end of exposure.

If the box is damaged you can put it in a closed envelope on which you will indicate the sender and the delivery address indicated on the original box.

Data you send are fundamental to allow us to perform an accurate analysis of the detector. We will send you the measurement results by post or to your e-mail address.

CUSTOMER SERVICE

For any question please contact our laboratories by email info@u-series.com (opening hours: 9-13, 14-18).

Our laboratory is ISO 9001: 2015 certified and the analysis results are CEI EN ISO/IEC 17025:2018 accredited. To verify the quality of its devices and analysis, our laboratory performs periodic calibrations and participates in international intercomparisons.

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