

RADIATION DETECTOR

PCE-RD 50



- » **Measuring range:** 0 ... 9999 Bq/m³
- » **Sensor:** Semiconductor detector
- » **Reliable measured values:** in 1 hour
- » **Short-term average:** 1 day (updated hourly)
- » **Long-term average:** up to 1 year (updated every 24 hours)
- » **Alarm:** acoustic, visual
- » **Green:** Values below 100 Bq/m³
- » **Yellow:** Values between 100 and 150 Bq/m³
- » **Red:** Values above 150 Bq/m³
- » **Display:** E-paper 1.54 inch

The radiation detector is a compact and handy measuring device for precise monitoring of the radon concentration indoors. With a measuring range of 0 ... 9999 Bq/m³ and a semiconductor detector, the radiation detector provides reliable measured values after just one hour. It provides both short-term average values (updated hourly) and long-term average values (updated every 24 hours up to 1 year) for a detailed analysis of radon exposure. These values are stored in the device and updated regularly. After a battery change or by pressing the reset button, all stored data is deleted and the monitor is reset to the original measured value.

The e-paper display shows the values in Bq/m³ or pCi/L, depending on the selected unit, which can be set by the user. The device has an audible and visual alarm with colour coding: Green for values below 100 Bq/m³ (safe), yellow for values between 100 and 150 Bq/m³ (low exposure) and red for values above 150 Bq/m³ (high exposure).

With its dimensions of 103 x 103 x 33 mm, the radiation detector is particularly compact and can be set up or hung up. It is powered by AAA batteries and is therefore mobile and flexible in use. This makes the radiation detector ideal for use in residential, office, school and industrial buildings for fast and reliable monitoring of radon levels.

Specification

Radiation	
Measuring range	0 ... 9999 Bq/m ³
Resolution	1 Bq/m ³
Accuracy	7 days <10 %, 2 months <5 % @ 200 Bq/m ³
Radiation	
Measuring range	0 ... 500 pCi/L
Resolution	0,01 pCi/L
Accuracy	7 days <10 %, 2 months <5 % @ 200 Bq/m ³

General technical data	
Measuring functions	Cumulative average, 12h value, 24h value
Measuring functions (additional information)	- Short-term average: 1 day (updated hourly) - Long-term average up to 1 year (updated every 24 hours)
Units	Bq/m ³ , pCi/L
Display type	E-paper
Display size	1,54 Inch
Storage medium	Internal memory
Sensor	Semiconductor detector
Operating time	2 Year(s)
Alarm	optical, Acoustic
Sensitivity	30 CPH @ 1 pCi/L
Menu language	English, English (GB)
Protection class (device)	IP20
(Rechargeable) battery	3 x 1,5 V AAA battery , Alkali-manganese
Capacity	1200 mAh
Operating conditions	0 ... 40 °C , 0 ... 85 % RH
Storage conditions	0 ... 40 °C , 0 ... 85 % RH
Dimensions (L x W x H)	103 x 103 x 33 mm
Weight	122 g