RADON DETECTOR

PCE-RD 100

- **sensor: pulsed ionisation chamber**
- **sensitivity: 30 CPH @ 1 pCi/L**
- **rteal-time data display**
- **data transfer to smartphone via WiFi**
- **data export to PC via memory card**
- **alarm: audible, visual**
- **green:* values below 2.7 pCi/L**
- **yellow:* values between 2.7 and 4 pCi/L (with audible alarm)**
- **red:* values above 4 pCi/L (incl. smartphone notification)**
- **TFT colour screen 2.4 inch**

The radon detector offers precise monitoring of the radon concentration within the range of 0.1 ... 99.9 pCi/L with an accuracy of < 10% @ 10 pCi/L and a sensitivity of 30 CPH at 1 pCi/L. Our radon detector discovers radon at an early stage, minimises health risks and enables continuous real-time monitoring. Current measurement data is collected every 10 minutes and averages are calculated for 1 hour, 1 day and 7 days. The first reliable data output of the measured values takes less than 1 hour.

An integrated audible alarm and a coloured LED screen warn of increased radon levels. For radon values below 2.7 pCi/L, the display lights up in green. At values between 2.7 and 4 pCi/L, the display lights up in yellow with an audible alarm. If the value exceeds 4 pCi/L, the display lights up in red and a notification is sent to the smartphone. The threshold values for the alarm can also be set individually so that the user can adjust the threshold values to suit their own needs. Thanks to the WiFi connection, the measured values can be conveniently monitored and the radon detector can be controlled remotely via the app. A 128 MB memory card continuously saves up to 12 months of data, which can be easily transferred to a computer as a csv file. The 2.3 inch TFT colour display clearly shows all relevant data. The radon detector is powered by a stable power supply and therefore offers reliable, continuous monitoring.

Specification

Radiation	
Measuring range	0,1 ... 99,9 pCi/L
Resolution	0,01 pCi/L
Accuracy	<10 % @ 10 pCi/L

General technical data	
Measuring functions (additional information)	Measured values: every 10 minutes, 1 day, 7 days
Display type	TFT colour display
Display size	2,3 in
Storage medium	Micro SD card
Storage capacity	128 MB
Memory information	Saves data continuously every 10 minutes for up to 12 months, transferable to PC
Interface	WiFi
Alarm	optical, Acoustic
Sensors	Pulsed ionisation chamber
Sensitivity	30 CPH @ 1 pCi/L 0.5 CPM @ 1 pCi/L
Menu language	English, English (GB)
Protection class (device)	IP20
Power supply	100 ... 240V AC | 50/60 Hz
Connector type	Euro plug
Operating conditions	1 ... 50 °C , 0 ... 80 % RH
Storage conditions	1 ... 50 °C , 0 ... 80 % RH
Dimensions (L x W x H)	82 x 82 x 125 mm
Weight	394 g