


# Radim-5A

## Technical specifications

<b>Application:</b>	For the continuous measurement of radon concentrations in indoor air.	
<b>Measurand:</b>	Radon activity concentration in air [Bq/m <sup>3</sup> ]	
<b>Detector:</b>	Si-semiconductor detector	
<b>Instrument response:</b>	(0.3 imp/h) / (Bq/m <sup>3</sup> )	
<b>Sampling interval:</b>	0.5 h	
<b>Memory:</b>	can hold the measurement results of 340 days (= 16340 individual sampling intervals)	
<b>Minimum concentration:</b>	80 Bq/m <sup>3</sup> for 1-hour measurements with a statistical error equal to ± 20 %	
<b>Maximum concentration:</b>	approx. 50 kBq/m <sup>3</sup>	
<b>Effect of humidity:</b>	a change in the relative humidity from 50% to 90% causes a change in the sensitivity by -4%	
<b>Operating modes:</b>	“MEAS” - measurement of the radon concentration “TEST” - test using the internal generator “BCKG” - determination of possible contamination of the detector with Pb-210/Po-210.	
<b>Transfer of data:</b>	Radim-5A <=> PC via serial interface RS232 (USB to RS232 adapter cable available for extra charge); Windows-Software for graphical presentation of the results. Easy export of measurement data to MS Excel files.	
<b>Power supply:</b>	two alkaline batteries - type C (LR14)	
<b>Power consumption:</b>	750 µA during operating mode; approx. 120 µA at stand-by mode operating time: approx. 200 days with two alkaline batteries (5.3 Ah)	
<b>Display:</b>	without display in order to keep power consumption as low as possible	
<b>Self test:</b>	automatic test using the internal generator	
<b>Climatic conditions:</b>	temperature: 3 to 40 °C; rel. humidity: 5 to 99 %	
<b>Dimensions and weight:</b>	270 x 130 x 130 mm, approx. 0.5 kg	
<b>Accessories:</b>	Included in delivery: Radim-5WP software program, manual (English), data cable, transport box.	