

# Radon Scout Home

Electronical radon monitor



## Applications:

- for **long-term monitoring** of the radon concentration in airborne **Radon (<sup>222</sup>Rn)** in homes and workplaces
- for homeowners as well as tenants, lessors and housing companies.

## Features:

- reliably records the time course of the radon concentration over many years
- temperature and humidity sensors provide information about a healthy room climate
- the measurement data can be read out at any time to preserve evidence
- a CO<sub>2</sub> sensor is optional
- can be calibrated according to DIN EN ISO/IEC 17025:2018 on request.

**Radon measurement**

<b>Detector type</b>	silicon detector	
<b>Range</b>	1 Bq/m <sup>3</sup> ... 1.000.000 Bq/m <sup>3</sup> CO <sub>2</sub> : 400 ... 5.000 ppm (0,04% ... 0,5%)	
<b>Accuracy</b>	20%	
<b>Sensitivity</b>	0,092 cpm/(kBq/m <sup>3</sup> )	
<b>Stat. error (1σ)</b>	1 week @ 300 Bq/m <sup>3</sup>	6%
	1 month @ 300 Bq/m <sup>3</sup>	3%
	1 week @ 100 Bq/m <sup>3</sup>	10%
	1 month @ 100 Bq/m <sup>3</sup>	5%
	24 hours @ 300 Bq/m <sup>3</sup>	15%

**Internal sensors**
**Rel. humidity, temperature,  
optional bar. pressure (-P) or CO<sub>2</sub> (-CO<sub>2</sub>)**
**Important**

opt.CO<sub>2</sub> sensor works only when instrument is powered through USB connector (computer, AC/DC adapter, power bank); measurement of other parameters is not affected, Automatic calibration with respect to outdoor CO<sub>2</sub> level

**Equipment**

<b>Environmental conditions</b>	0 ... 40°C 0 ... 95% rF, non-condensing 800 ... 1.100 hPa
<b>Power supply</b>	3.3 V DC by 2 x AAA batteries or via USB socket (5 V) running time with battery approx. 5 ... 6 months "Low. Batt." Display with red LED (flashes once every four seconds) short-term buffering of the real-time clock when changing the battery

<b>Display</b>	alpha numeric LCD with bright backlight
Languages	DE, EN, ES, FR, IT, NO
Displayed values	switchable between SI and US units average radon value since the start of a series of measurements average radon level for the last 24 hours temperature, relative humidity barometric pressure (Radon Scout Home – P) CO2 concentration (Radon Scout Home – CO2) battery voltage (Radon Scout Home – P/CO2) date and time
<b>Data storage</b>	non-volatile memory with circular structure 16.383 data records saves all parameters including tilt detection each 4hrs
<b>Interface</b>	USB (Mini-USB socket)
<b>Alert indication</b>	display with red LED (flashes four times every four seconds) at > reference value of 300 Bq/m <sup>3</sup> at a CO2 concentration of more than 1,000 ppm, the red backlight is switched on (only Radon Scout Home - CO2)
<b>Operation</b>	slide switch to start/stop sampling button to toggle display page and backlight
<b>Software</b>	Radon Vision
<b>Dimensions</b>	80 mm x 96 mm x 44 mm
<b>Weight</b>	150 g (incl. batteries)
<b>Scope of delivery</b>	USB cable (for all types) 2 batteries type AAA quick manual & software on <a href="http://www.sarad.de">www.sarad.de</a> power adapter (for CO2 version only) <b>DAkkS-accredited calibration according to DIN EN ISO/IEC 17025:2018 possible on request</b>