Radon Scout Home:

Monitoring of radon in living spaces

The Radon Scout Home is used for long-term monitoring of the legal reference value for the radon concentration in breathing air. The device was specially designed for homeowners as well as tenants, lessors and housing companies.

The Radon Scout Home records the transient behavior of the radon concentration over many years reliably, meaning that influences on weather conditions and seasonal changes are safely recorded. Sensors for temperature and humidity provide information about a healthy indoor climate. The measurement data can be read out at any time for preservation of evidence.

The instrument is manufactured and calibrated in our factory in Dresden/Germany. Calibration certificates are available on request and at additional cost.

Technical Data Radon Scout Home

Radon measurement		
Principle of operation	Silicon detector and Alpha spectroscopy	
Range	0 Bq/m^3 … 1,000,000 Bq/m³	
Accuracy	< 2%	
Sensitivity	5.52 cph/(kBq/m³)	
Stat. Error (1σ)	1 week @ 300 Bq/m³ 1 month @ 300 Bq/m³ 1 week @ 100 Bq/m³ 1 month @ 100 Bq/m³ 24 hours @ 300 Bq/m³	6% 3% 10% 5% 15%
Humidity		
Range	0% rH … 100% rH	
Accuracy	< 4.5% rH (3% typ.) for 20% rH … 80% rH	
Temperature		
Range	-40 °C … 120 °C	
Accuracy	< 0.4 °C (0.3 °C typ.) for 5 °C … 60 °C	
Pressure (Radon Scout Home – P)		
Range	760 mbar … 1200 mbar	
Accuracy	< 0.5% FSO	
CO2 (Radon Scout Home CO2)		
Principle of operation	Non dispersive infrared (NDIR)	
Range	0 ppm … 5000 ppm (0% to 0.5%)	
Accuracy	< 5% ± 50 ppm	
Response time	10 min	
Remark	CO_2 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 CO2 level	
Instrument		
Environmental conditions	-10 °C … 50 °C 0% rH … 99% rH no condensation	
Power supply	2 x AAA battery or USB socket Battery operation approx. 5 … 6 month Low battery indication by red LED Short time buffering of real time clock during battery replacement	

Display	Alpha numeric LCD with bright backlight Units can be changed between SI and US style English, German and Spanish versions available Radon average since start of a measurement series Radon average of previous 24 hours Temperature, rel. humidity Bar. Pressure (Radon Scout Home – P only) CO_2 concentration (Radon Scout Home – CO_2 only) Battery voltage (Radon Scout Home – P/CO_2 only) Date and Time
Data storage	Non-volatile memory with circular structure for 16383 data records in any number of test series Saves all parameters including tilt detection each four hours
Interface	USB (mini USB socket)
Alert indication	Red blinking light if Radon concentration exceeds 300Bq/m³ Red backlight will be lighted if the CO_2 concentration exceeds the threshold of 1000ppm (Radon Scout Home – CO_2 only)
Operation	Slide switch to start/stop sampling Button to toggle display page and backlight
Software	Radon Vision
Dimensions	80mm x 96mm x 44mm
Weight	140g including batteries
Accessory	USB cable (incl. for all models) AC/DC adapter (incl. for models with pressure or CO_2 sensor) Power bank (option for mains power independent operation with CO_2 sensor) Factory calibration with certificate (option) DKD calibration with certificate (option)