

Radon Scout / Plus

Electronical radon monitor



Applications:

- for long-term measurements of the activity concentrations of airborne **radon** (^{222}Rn) in homes, at workplaces (also underground)
- eminently suitable for the direct **control of ventilation systems**

Features:

- highest sensitivity in its class
- US EPA certified device
- shows the radon concentration time-resolved, even below 100 Bq/m^3
- Radon Scout switching threshold set to 300 Bq/m^3 , freely selectable with Radon Scout Plus
- battery-powered, autonomous operation for several months, additional plug-in adapter for the Radon Scout Plus
- remote access and data transmission possible
- sensors for temperature, humidity and an integrated motion detector, the Radon Scout Plus also has an air pressure sensor
- LCD display on the Radon Scout Plus
- DAkkS-accredited calibration according to DIN EN ISO/IEC17025:2018

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Radon measurement

Detector type	semiconductor detector with HV-chamber
Measuring range	1 ... 10.000.000 Bq/m ³
Sensitivity	1,8 imp/min @ 1000 Bq/m ³ (independent of humidity)
Accuracy	<=6%
Stat. error	200 Bq/m ³ with 20% stat. error (1 σ) at 1h interval 1.000 Bq/m ³ with stat. error (1 σ) < 10 % at 1h interval 100 Bq/m ³ with 17% stat. error (1 σ) at 3 h interval
Response time	120 minutes to 95% of final value
Integrated sensors	relative humidity, temperature, tilt and Radon Scout Plus: barometric pressure
Integration interval	1 h or 3 h selectable Radon Scout Plus: 1...255 min adjustable per minute
Potential-free switch contact	threshold level fixed to 300 Bq/m ³ (EU reference value) Radon Scout Plus: adjustable threshold max. 60 V, 400 mA, peak current 1.5A

Instrument

Data storage	non-volatile memory (circular structure) 672 data records Radon Scout Plus: 16.383 data records
Power supply	3,3 V, 2 x D-size cell (Ni-Cd, NiMH or Alkaline) Radon Scout Plus: additional external DC adapter
ATEX category	No
Interfaces	USB, RS232
Battery life	> 90 days
Operation	single switch, measurement/stand-by (lock-function) Radon Scout Plus: display with backlight
Environmental conditions	temperature 0 ... 40°C rel. humidity 0 ... 95%, non-condensing bar. pressure 800 ... 1.100 hPa
Dimensions	175 x 135 x 55 mm

Closer to your application

Weight	800 g (incl. batteries)
Radon Vision Software (incl.)	set-up, data download interactive graphical display (zoom, pan, fit data-cursor, marker for tilt and start of a new measurement, error bars, smoothing) selective ASCII export (EXCEL format) selective graphical protocol print (space for individual header, user comments) calculation of average concentration and exposure automatic created file names and path structure switch over between US and SI-units (Bq/m ³ / pCi/L)
Scope of delivery	Radon Scout / Radon Scout Plus USB cable 2 batteries, type D manual & software (electronic version) DAkkS-accredited calibration certificate according to the DIN EN ISO/IEC 17025:2018 Radon Scout Plus: power adapter