Radon Scout Everywhere

Remote controlled radon sensor with switching output

The Radon Scout Everywhere is a state-of-the-art, remote-controlled radon sensor designed for precise and reliable radon monitoring in both living spaces and workplaces. Whether you're ensuring a safe home environment or maintaining compliance with workplace safety standards, this advanced sensor delivers accurate, real-time radon level measurements with ease.

APPLICATIONS:

- Professional radon monitoring in residential buildings
- Monitoring for industrial and commercial applications

FEATURES

- Highly sensitive radon sensor for short measuring intervals
- Insensitive to humidity and temperature fluctuations, external radiation, vibrations and mechanical shocks
- Switching output to control ventilation appliances
- Secure remote control via LTE with software interfaces to 3rd party monitoring systems
- Professional sensor technology with best references
- Ex-works calibrated by SARAD's DAkkS-accredited radon calibration lab according to DIN EN ISO/IEC 17025:2018

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SPECIFICATIONS

Radon measurement

Principle of operation	Lucas cell & SiPM	Range	1 Bq/m3 ¡K 1MBq/m3
Accuracy	<=6%	Sensitivity	3.3 cpm/(kBq/m3)
Stat. Error (1ƒã)	1 hour @ 300Bq/m3 1 day @ 300Bq/m3 1 day @ 50Bq/m3	12% 2% 6%	
Principle of operation	Lucas cell & SiPM		

Sensors (inside housing)

Humidity

Range	0%rH - 100%rH	Accuracy	< 4.5%rH (3% typ.) for 20%rH - 80%rH

Temperature

Range	-40ºC - 120ºC	Accuracy	< 0.4°C (0.3°C typ.) for 5°C - 60°C

Pressure (option) — Smart Radon Sensor – CO^2 only

Range	760mbar … 1200mbar	Accuracy	< 0.5% from measuring range

CO^2 (option) — Smart Radon Sensor - CO^2 only

Principle of operation	Non dispersive infrared (NDIR)
Range	400ppm - 5000ppm (0% to 0.5%)
Accuracy	< 5% ± 50ppm
Response time	10 min
Important	Automatic calibration with respect to outdoor CO^2 level

Instrument

Environmental conditions	-10°C - 40°C, 0% rH - 95% rH no condensation, 800 - 1100h Pa
Power supply	Main power adapter, 5 V/2.5 A, input voltage 100–240 V, 50/60 Hz consumption 2W
ATEX category	No
Data storage	Non-volatile memory with circular structure for 16383 data records in any number of test series Saves all parameters including temperature and humidity each interval (settable from 1 to 255 minutes)
Interfaces	Ethernet RJ45, 5 V power input. LTE modem stick intern or extern possible Switching output (potential free contacts, max 40 V, 250 mA, peak current 0.75A)
Status indication	Red LED for power supply, Green LED for operational state
Operation	Automatic start after powering up
Radon Vision Software (incl.)	• Professional software for 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 / exposure • Automatic created file names and path structure • Switch over between US / SI-units (Bq/m³/pCi/L)
Standard s'ware interfaces	MQTT messages providing the measuring values (optional), REST API (only available when connected via Ethernet)
Dimensions	120 x 120 x 40 mm Weight 250 g
Scope of delivery	• Basic device with integrated LTE modem stick and optional integrated SIM card • Main power adapter • Radon Vision Software
Optional accessory	• USB extension cable with magnetic feet

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