

Radon Scout Everywhere

Remote controlled radon sensor with switching output







Applications:

- professional radon monitoring in living rooms
- monitoring at working places

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



Closer to your application

Radon measurement

Detector typeLucas cell & SiPM

Measuring range 1 Bq/ m³... 1 MBq/m³

Accuracy <=6%

Sensitivity 3,7 cpm/(kBq/m³)

Stat. error (1\sigma) 1 h @ 300Bq/m³ 12%

1 day @ 300Bq/m³ 3% 1 day @ 50Bq/m³ 6%

Sensors (inside the housing):

Humidity

Range 0%rH ... 100%rH

Accuracy < 4,5%rH (3% typ.) for 20%rH ... 80%rH

Temperature

Range -40°C ... 120°C

Accuracy $< 0.4^{\circ}\text{C} (0.3^{\circ}\text{C typ.}) \text{ for } 5^{\circ}\text{C} \dots 60^{\circ}\text{C}$

Pressure (optional)

Range 760 mbar ... 1200 mbar

Accuracy < 0,5% from measuring range

CO₂ (optional)

Principle of operation non-dispersive infrared (NDIR)

Range 400 ppm ... 5000 ppm (0% to 0,5%)

Accuracy $< 5\% \pm 50 \text{ ppm}$

Response time 10 min

Important automatic calibration with respect to outdoor CO2

level

Closer to your application

Instrument

Environmental conditions -10°C ... 40°C

0% rH ... 95% rH, non-condensing

800...1100 hPa

Power supply mains 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 16

383 data records in any number of test series; saves all parameters including temperature and humidity each interval (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 software interfaces MQTT messages providing the measuring values

(at additional cost)

REST API (only available when connected via

Ethernet)

Dimensions 120 mm x 120 mm x 40 mm

Weight 250 g

Scope of delivery basic device with integrated LTE modem stick

and optional integrated SIM card

mains power adapter Radon Vision Software

Optional accessory USB extension cable with magnetic feet



