

## **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



**Radon measurement** Lucas cell & SiPM **Detector type** Measuring range 1 Bq/ m<sup>3</sup>... 1 MBq/m<sup>3</sup> Accuracy <=6% Sensitivity 3,3 cpm/(kBq/m<sup>3</sup>) 1 h @ 300Bq/m<sup>3</sup> 12% Stat. error (1<sub>o</sub>) 1 day @ 300Bq/m<sup>3</sup> 2% 1 day @ 50Bq/m<sup>3</sup> 6% Sensors (inside the housing): **Humidity** 0%rH ... 100%rH Range Accuracy < 4,5%rH (3% typ.) for 20%rH ... 80%rH **Temperature** -40°C ... 120°C Range Accuracy < 0,4°C (0,3°C typ.) for 5°C ... 60°C **Pressure (optional)** 760 mbar ... 1200 mbar Range Accuracy < 0,5% from measuring range CO2 (optional) Principle of operation non-dispersive infrared (NDIR) 400 ppm ... 5000 ppm (0% to 0,5%) Range < 5% ± 50 ppm Accuracy **Response time** 10 min automatic calibration with respect to outdoor CO2 Important level



Instrument

Closer to your application

| Environmental conditions      | -10°C 40°C<br>0% rH 95% rH, non-condensing<br>8001100 hPa  |
|-------------------------------|--|
| Power supply                  | mains power adapter, 5 V/2.5 A<br>input voltage 100–240 V, 50/60 Hz<br>consumption 2W  |
| ATEX category                 | no   |
| Data storage                  | non-volatile memory with circular structure for 16<br>383 data records in any number of test series;<br>saves all parameters including temperature and<br>humidity each interval (from 1 to 255 minutes)   |
| Interfaces                    | Ethernet RJ45<br>5 V power input<br>LTE modem stick intern or extern possible<br>Switching output (potential free contacts, max 40<br>V, 250 mA, peak current 0.75A)   |
| Status indication             | Red LED for power supply<br>Green LED for operational state  |
| Operation                     | automatic start after powering up  |
| Radon Vision Software (incl.) | professional software for set-up, data download,<br>interactive graphical display (zoom, pan, fit data-<br>cursor, marker for tilt and start of a new<br>measurement, error bars, smoothing)<br>selective ASCII export (EXCEL format)<br>selective graphical protocol print (space for<br>individual header, user comments)<br>calculation of average concentration / exposure<br>automatic created file names and path structure<br>switch over between US / SI-units (Bq/m³/pCi/L) |
| Standard software interfaces  | MQTT messages providing the measuring values<br>(at additional cost)<br>REST API (only available when connected via<br>Ethernet)   |
| Dimensions                    | 120 mm x 120 mm x 40 mm  |
| Weight                        | 250 g  |
| Scope of delivery             | basic device with integrated LTE modem stick<br>and optional integrated SIM card<br>mains power adapter<br>Radon Vision Software   |
| Optional accessory            | USB extension cable with magnetic feet   |

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