

## Radon Scout Professional

Radon monitor for long and short-term measurements and ventilation control



A new detector technology defines a new level: outstanding sensitivity at dosimeter size. The instrument will not be affected by any variations of temperature and humidity, external radiation, mechanical shocks and vibrations. Two AAA batteries are good for several month of autonomous operation. These features as well as the additionally integrated sensors for temperature, humidity, barometric pressure and CO2 (both optional)

making the Radon Scout Plus the very first choice for both, short and long term Radon sampling. The fast and statistical accurate measurement allows – in combination with the optional switch output – the direct control of ventilation systems to maintain the statutory Radon threshold. Of course the instrument can be calibrated. All results are saved in the non-volatile memory and may be read through the USB interface. Only high quality components are used for the Radon Scout Professional which is manufactured at our company's location in Dresden.



## Technical data

| Radon measurement  |  |  |
|--|--|--|
| Principle of operation                                     | Lucas cell   |  |
| Range  | 1 Bq/m³ 1,000,000Bq/m³   |  |
| Accuracy   | < 2%   |  |
| Sensitivity  | 2.5cpm/(kBq/m³)  |  |
| Stat. Error (1σ)   | 1 hour @ 300Bq/m³<br>1 day @ 300Bq/m³<br>1 day @ 50Bq/m³   | 15%<br>3%<br>8%  |
| 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 Professional - P only  |  |
| Range  | 760mbar 1200mbar   |  |
| Accuracy   | < 0.5% FSO   |  |
| CO2  | Radon Scout Professional - CO2 only  |  |
| COZ  | Radon Scout Froiessional - CC  | 22 Oliny   |
| Principle of operation                                     | Non dispersive infrared (NDIR)   | ,  |
|  |  |  |
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## Data Sheet Radon Scout Professional

Closer to your application

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, French and Spanish versions

available Radon average since start of a

measurement series Radon concentration with

percentage error

Temperature, rel. humidity

Bar. Pressure (Radon Scout Professional – P only)
CO2 concentration (Radon Scout Professional – CO2

only)

Battery voltage (Radon Scout Professional – P/CO2

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

interval

(settable from 1 to 255 minutes)

Interface USB (mini USB socket)

Alert indication Red blinking light if Radon concentration exceeds

300Bq/m³ Red backlight will be lighted if the CO2 concentration exceeds the threshold of 1000ppm

(Radon Scout Home - CO2 only)

Switch output for ventilation control (optional)

Operation Slide switch to start/stop sampling

Button to toggle display page and backlight

Software Radon Vision

Dimensions 82mm x 96mm x 44mm

Weight 150g including batteries

Accessory USB cable (incl. for all models)

AC/DC adapter (incl. for models with pressure or CO2

sensor)

Power bank (option for mains power independent

operation with CO2 sensor)

Factory calibration with certificate

DKD calibration with certificate (option)