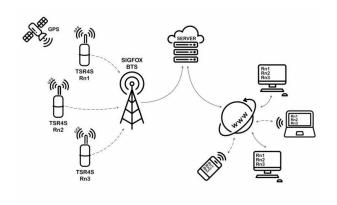
Radon concentration monitoring





Wireless Radon Probe TSR 4S

- 24/7 monitoring of radon concentration
- On-line monitoring of measured results on WEB-application (radon concentration, temperature, humidity)
- Alarms over email, (SMS optional) if radon cross the limit though WEB-application
- Internal memory for backup of measured results (downloading over USB)
- Monitoring of GPS position on map



Radon is the second most common cause of lung cancer. You do not know that you are inhaling it. It is not visible or felt, so it is necessary to monitor it. Our radon probes are used to continuously monitor radon concentrations in buildings and properties. They are very sensitive and reliable, yet easy to use. Extensive data connectivity options together with wireless design make our probes a great help not only for measurement companies, but also for schools and kindergartens, households, or offices.







TSR4S - Product specification

Product Type symbol Application compability Average measurement sensitivity

Measuring range

Measurement uncertainty

Measuring chamber capacity Response rate Radon records

Measuring relative humidity range Measuring temperature Results sending and saving interval Results memory capacity

Powering Accu life after full charging Dimension Waterproof Radio technology

Operating conditions

Temperature Recommended relative humidity * Maximum working relative humidity Absolute humidity

Detector life

TSR4S - SIGFOX Wireless Radon Probe 042 127 283 000 or 042 127 232 001 Nollge - FoxerIoT 0,25 count/hour/Bq.m-3

(Method RaA+RaC; 15°C ÷ 30°C; rel. hum. 20% ÷ 40%)

MDA - 100 000 Bq/m3

MDA = 100 Bq/m3 per 1 hour or 20 Bq/m3 per 24 hours

< 13% at 300 Bq/m3 per 1 hour < 3% at 300 Bq/m3 per 24 hours

0,176 dm3

< 30 minutes (RaA), < 3 hours (RaA + RaC)

calculated from RaA (quicker, less sensitive), (recorded only in internal memory).

calculated form RaA + RaC (slower, more sensitive), (sended

to server and recorded in internal memory).

0 – 100 % (WEB and recorded in internal memory)

-40 to + 125 °C (WEB and recorded in internal memory)

15 - 255 minutes, default 1 hour

5000 records (208 days of 1-hour records), spectra 300 records

internal rechargeable accumulator; charging via USB >1 year (also depends on operating conditions)

Ø 80 x 175 mm

IP67 (only for electronics) SIGFOX RC1 868 MHz

-10 ° C to +40 ° C 10% - 75% 0% - 99%

5-20 g/m3

- * Increased humidity reduces the life of a charged battery
- * There must be no condensation of water in the chamber erroneous measuring results

50-100 million pulses

- average concentration of 1000 Bg/m3 -> 12 years
- average concentration of 10,000 Bg/m3 -> 1 year

Probe is designed for continuous measuring of radon concentration. Portable probe basis is a measuring chamber with a semiconductor photodetector. Radon enters the chamber by diffusion through the input filter on the bottom of probe. The probe measures in autonomous and time continuous way. It processes results every 2-minute intervals and from this counts radon concentration (1 hour moving average – average of 30 2-minute process intervals). The probe sends results to server and saves time records in its internal memory (typically at an interval of 1 hour). Next saved value to internal memory is time record of measuring energy spectrum (typically at an interval of 12 hours).

The probe can be switched on/off by switch. LEDs "STAT" and "CHRG" indicate current status of probe.

