

# DOSEman PRO

Radon progeny air sampler



## Applications:

- **Personal dosimeter** for the exact determination of exposure to short-lived radon daughter products, for example in mining
- **Continuous measurement of the radon progeny concentration**

## Features:

- Can operate autonomously for 48 hours
- Acoustic alarm when a definable dose limit is exceeded
- One-button operation and tamper-proof

### Measurement of radon progenies

<b>Measuring principle</b>	Separation of radon progeny products on a filter using a continuous air flow permanent alpha-spectroscopic filter analysis
<b>Filter</b>	3 µm membrane filter (PTFE) Diameter 17,5mm Filter life 1 month (normal environment)
<b>Pump</b>	Diaphragm pump 0,18 l/min
<b>Sensitivity</b>	150 Impulses/min @ 1000 Bq/m <sup>3</sup> (EEC)
<b>Response time</b>	2 h (90% of final value)
<b>Measuring interval</b>	1 ... 255 min, adjustable in 1 min steps

**Equipment**

<b>Memory</b>	377 records and total spectrum, non-volatile
<b>Power supply</b>	Fixed rechargeable battery approx. 48 hours operating time Charging time approx. 2 hours
<b>ATEX category</b>	No
<b>Interfaces</b>	Infra red with special USB-IR Adapter (opt.)
<b>Operation</b>	One button with "lock" function Acoustic signal generator
<b>Environmental conditions</b>	Temperature: 0 ... 40°C Rel. humidity: 0 ... 95%, non condensing Pressure: 800 ... 1.100 hPa
<b>Display</b>	LCD 3 x 12 characters, US- or SI-units available
<b>Dimensions</b>	138 x 57 x 32 mm
<b>Weight</b>	300 g
<b>Radon Vision Software</b>	Setup, Data transfer
<b>Scope of delivery</b>	DOSEman PRO Transport box Battery charger Manual & Software (electronic Version) DAkkS-accredited calibration certificate according to DIN EN ISO/IEC 17025:2018  IR-USB adapter and fanny pack optional