DOSE*man*

Technical Data

- Theory of operation
  - o HV biased measurement chamber with diffusion membran for air inlet
  - o Electrostatic collection of Radon daughters generated by Radon decay within the chamber on the surface of a semiconductor detector
  - o Spectroscopic analysis of collected short living Radon daughter products
- Measurement range 0 ... 4 MBq/m³
- Response time 12/120 Minutes to 95% of the final value
- Sensitivity 0.18/0.32 Counts/Minute @ 1000 Bq/m³ (fast/slow mode)
  - o 20% statistical error (1σ) @ 200 Bq/m³ within 8 hours (slow mode)
  - o 10% statistical error (1σ) @ 200 Bq/m³ within 24 hours (slow mode)
  - o 16% statistical error (1σ) @ 1000 Bq/m³ within 2 hours (slow mode)
- Sample interval 1 ... 255 Minutes, adjustable by software
- Non volatile data memory to store 720 data records and sum spectrum
- Internal real time clock
- Internal rechargeable battery for 12 days permanent operation
  2 hours recharge time
- Instrument control by a single push button, Optical and audible alert
- Displaying of concentration, exposure and dose (LCD, 3 lines x 12 characters)
- Dimensions 115 x 57 x 32 mm, weight 250 g
- Available with SI- or US- units
- Infrared interface , spezial IR - USB adapter is required
- Data transfer, set-up and instrument control by Radon Vision software

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