

# RTM 1688-2



## Technical Data

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- Optimised high voltage chamber with electrostatic focus of short living Radon daughters generated inside the chamber at the surface of a semiconductor detector
  - No changes of the sensitivity due to the ambient humidity
  - Usage of a drying tube or similar equipment is **NOT** required!
  - High sensitivity at low chamber volume (approx. 250 mL)
- Spectrometric analysis of the short living Radon daughters
  - Minimum possible response time using the Fast-Mode (90% of the final value within 10 Minutes)
  - Double sensitivity using the Slow-Mode (including Po-214)
  - Measurement of the Thoron (Rn-220) concentration
  - No contamination by long living Radon daughters
  - 100% quality assurance by readable Alpha spectrums
- Measurement Range 0 ... 10 MBq/m<sup>3</sup>
- Sensitivity 3/7 counts/Minute @ 1000 Bq/m<sup>3</sup> (Fast/Slow-Mode)
  - 200 Bq/m<sup>3</sup> with a 10% statistical error (1 $\sigma$ ) at a 1h sample interval
  - 10 Bq/m<sup>3</sup> with a 25% statistical error (1 $\sigma$ ) at a 4h sample interval
- Sensors included for
  - Relative humidity (0 ... 100%)
  - Temperature (-20 ... 40°C)
  - Barometric pressure (800 ... 1200mbar)
  - Tamper
- Sample interval from 1 Minute to 4 hours, 1 Minute steps
- Non-volatile memory for 2047 data records (circular), Alpha Spectrum for each included
- Internal sampling pump (0.30 L/min continuous and interval mode)
- Power supply by AC/DC wall adapter and internal rechargeable battery (battery operation up to 14 days)
- One button control (lock-function)
- Display (3 x 16 characters) with back-light
- RS232 and USB interface for set-up and data transfer (also via modem or ZigBee)
- Internal buzzer for alert function and Radon-„Sniffing“
- Dimensions 232 x 182 x 135 mm, weight 3.5 kg
- Radon Vision Software included

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