



## RapiDOS®

RapiDOS® is an alpha-track detector which can be used for short-term radon measurement between 7 and 14 days, also highly sensitive and environmental measurements. The exceptionally large measurement range of this detector allows measurements of radon levels from as low as 60 Bq/m<sup>3</sup> to as high as 150,000 Bq/m<sup>3</sup> during a 7 day period.

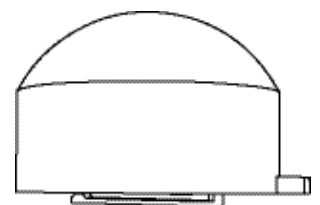
### Technical Specification

Detector application	Dwellings/workplaces
Measurement range (Bq/m <sup>3</sup> )	60-150 000 at 7 days
Measurement range (kBq h m <sup>-3</sup> )	10-25 000
Normal exposure duration (days)	7-30
Uncertainty (%)	10% at 50 kBq h/m <sup>3</sup> (10 days at 200 Bq/m <sup>3</sup> )
Basis of uncertainty	1 sd
Detector sensitivity (tracks cm <sup>-2</sup> kBq <sup>-1</sup> h <sup>-1</sup> m <sup>3</sup> )	4.6
Typical background (kBq h m <sup>-3</sup> )	4
Standard deviation on background (kBq h m <sup>-3</sup> )	1
Diameter (mm)	58 (63.5 with hanger)
Holder type	Closed, with filter
Holder design	RapiDOS, own (black)
Holder antistatic measures	Conducting holder
Detector material	CR39/PADC

### Alpha-track detector for short-term radon measurements

- The greater air volume of this detector doubles the detection speed to provide improved statistics for short term measurements
- Alpha-track technique
- Detectors consist of film elements located inside pods made from antistatic plastic
- Radon enters the detector by diffusion
- Analysis is performed using a state-of-the-art image scanner
- Exposure results are expressed as kBq h/m<sup>3</sup> and Bq/m<sup>3</sup>

Height 40 mm



Radonova Laboratories offers advanced measurement and consulting services in the field of ionising radiation. Using our ISO 17025 accredited system we establish the correct management and technical requirements to achieve accurate results for our customers. Our measurement service, which for example includes **Radtrak**®, **RapiDOS**® and **Duotrak**® detectors, is available globally and can be applied to dwellings, multifamily homes, workplaces, mines, institutions and wherever radon gas poses a health threat.

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