

# Indoor Air Sensor



## Technical Data

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Theory of operation	High voltage chamber with semiconductor detector
Sampling	Diffusion or internal pump (option)
Sensitivity	3/7 counts/min @ 1000 Bq/m <sup>3</sup> (fast/slow)
Response time	15/120 Minutes (fast/slow)
Range	
Radon	0 ... 10 MBq/m <sup>3</sup>
Temperature	0 ... 70 °C
Humidity	0 ... 100%
Enclosure	
Material	Aluminium (powder coated), wall mounting possible
Dimensions	225 mm x 145 mm x 180 mm (Width x Height x Depth)
Weight	2000 g
Integration interval	1 ... 255 Minutes adjustable in 1 Minute steps
Radon calculation	Alpha spectroscopy
Memory	344 data records and sum spectrum, non-volatile
Interface	
Analogues	2 x 0 ... 1V or 0 ... 20mA (1024 steps) either Radon/Thoron OR temperature/humidity *) upper range value programmable
Digital	Open drain with internal pull-up resistor (TTL/CMOS) Alert switch OR direct output of decay pulses *)
Serial	115200 baud, 8N1, only RxD, TxD and GND are used
Power supply	10.8 ... 15 VDC, <10mA with connected probe
Software	Radon Vision

\*) If temperature/humidity as well as the Radon/Thoron signal have to be connected to a data acquisition system, the analogous outputs have to be used for temperature and humidity. To log the Radon value use the digital output. The count rate of the transferred decay pulses is proportional to the Radon concentration. In this case the alert function is not available.

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