



ATMOS®

ATMOS is a light and field adapted radon monitor designed to be used even outside a lab. ATMOS pumps filtered air at 1 liter/minute into a pulsed ion chamber with high sensitivity and rapid response. The user has the possibility of several accurate measurements per day and even sniffing. The instrument measures the alpha decay from radon and its daughters and is completely insensitive to gamma radiation.

The display is a 3.5" touch screen showing the radon content in Bq/m³, the uncertainty since the measurement start time, integration time, measurement time, time and date.



ATMOS has built-in dehumidification to ensure that the moisture content of the air does not interfere with the measurement. The dehumidifier works in saturated humidity in temperatures up to 40 C.

Included is a field storage bag with removable cover, 24VDC power adapter and 2-meter hose.

The JAVI scanning and reporting software works in Windows and is included with the instrument. The software is used to read stored measurement data to evaluate the time and energy spectrum. The software is compatible with older versions of Windows.

User-friendly & reliable instrument with advanced features

- Field radon sniffer with excellent performance
- Touchscreen in color 3.5"
- Lockable with standard computer lock
- Fully maintenance free
- Battery or 230V powered with integrated dehumidification
- Light weight, only 4.5 kg
- Chirp function, listen to how high the volume is in confined spaces
- Ion chamber with alpha spectrometry
- Communication to PC via USB
- JAVI scanning software (web browser) supporting report generation

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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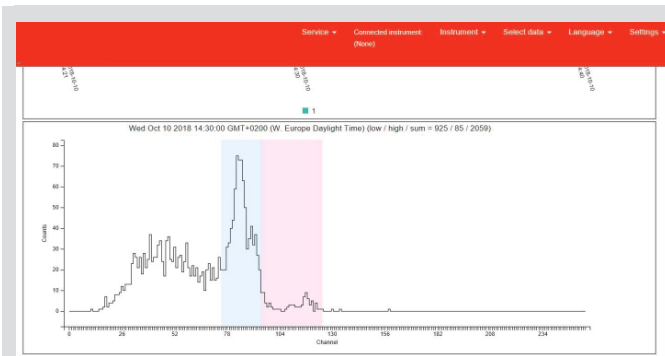
COMPANY DETAILS

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The different isotopes alpha energies are detected and the radon concentration is displayed in a color touch display. The user chooses the desired integration time, the longer the more accurate measurement. The measurement energy spectrum is regularly stored during the measurement every 10 minutes, and always allows the user to quality assure measurement data. A measurement value is displayed immediately at a new measurement.

ATMOS also displays a table of the last 10 measured levels per selected integration time. To each calculated radon content is presented with uncertainty in measurement.

The dehumidification of the air in ATMOS occurs automatically and is fully integrated into the instrument. The atmospheric pressure, temperature and humidity of the air are shown in the display and stored together with each measurement.



10 min spectrum at 9400 Bq / m³. Spectrum is saved for every 10 minutes interval if average time is selected for 10 minutes



Time distribution for 18 min sniffing at 9400 Bq/m³. After 8 min, ATMOS shows > 90% of true value.

Technical Specification

Measurement principle:	Pulsed ion chamber, 2,2 l volume	Display:	3.5" touch screen color
Battery capacity:	8 hours continuous operation	Temperature:	-10 to +40°C
Sensitivity:	10% at 800 Bq/m ³ and 10 min measuring time	Humidity:	0-99%
MDA: (Minimum detectable activity)	5 s at 1800 Bq/m ³ 1 min at 150 Bq/m ³ 1 h at 2 Bq/m ³	Software:	Windows software app for analysis of measurement data and energy spectrum(win7/10)
Detection Method:	Alfa spectrometry	Size:	500 x 385 x 220 mm (W x H x D)
Measuring range	1 – 100 000 Bq/m ³	Weight:	4,5 kg
Resolution:	0,25 MeV FWHM	Power using Mains:	110-240V, 50-60Hz: 0.5A @ 24V, 0.95A @ 12V
Memory capacity:	>10 years	Power using internal Battery:	0.35A @ 8V
Integration time:	Selectable integration time 1 min – 24 h	Voltage Adapter:	Output: +24VDC 3A. Input: 100-240V50/60 Hz, 1.5A
Communication:	USB	Sound:	Chirp for every pulse
Drying principle:	Adsorption with silica gel and Peltier cooler	Calibration:	Recommended every 12 months
Air flow:	1 l/min	Accessories:	Lock, Extra Filter, Hose adapter

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