



- **Easy to handle**
- **Sniffing capability**
- **Range 1 - 100 000 Bq/m<sup>3</sup>**
- **Micro-processor control**
- **One month memory buffer**
- **Communication port to PC and printer**
- **Spectroscopic alpha-energy resolution**
- **Insensitive to varying humidity levels**
- **32-bit PC Software for Windows**



The *ATMOS 12 DPX* is based on the pulsed ionization-chamber technology. This technique offers superior performance in terms of sensitivity and quickness in response. For the user, this means many accurate measurements per day and the possibility to use sniffing.

The functions of the instrument are controlled by a micro-processor. The background radiation is automatically rejected, and the result is presented on the LC display. Simply choose a suitable integration time, between one minute and 24 hours, and push the start button. In addition to the reading of the radon concentration, the display will also show the present statistical error, the run time

since start, the chosen integration time and the present date and time. For the user, this means full control and simple handling.

Every ten minutes, the mean value of the radon concentration is stored in the memory of the micro-computer. Regardless of how the instrument is handled, which buttons are pushed etc, the memory always contains the latest 28 days. Also, if the integration time is set to one hour or longer, an energy spectrum is automatically stored.

The memory can be read either by a PC computer or directly by a printer, for print-out of reports and time distributions of the radon concentration.

For the user, this means great possibilities to produce informative and detailed documentation.

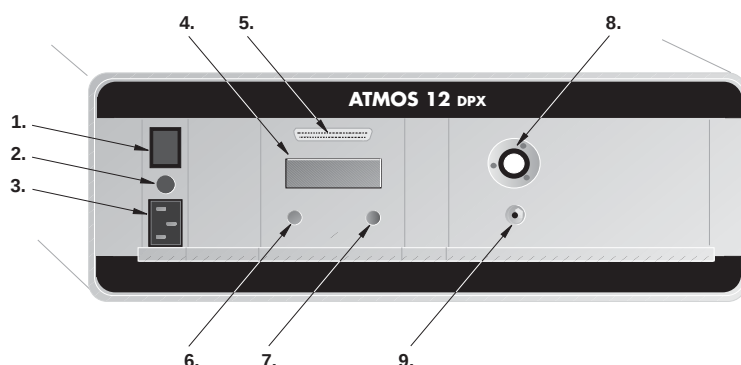
Thanks to all these advantages, *ATMOS 12 DPX* is the ultimate choice for all professional users. It is useful in every measurement situation, from quick screening to rigorous measurements prior to installation of mitigation systems.



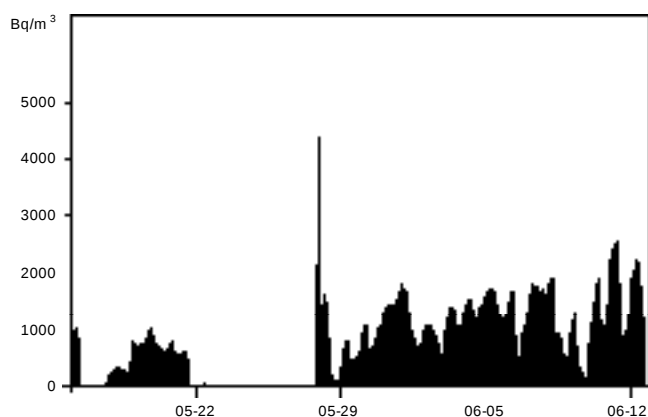
# Technical specifications

## Radon Gas Monitor

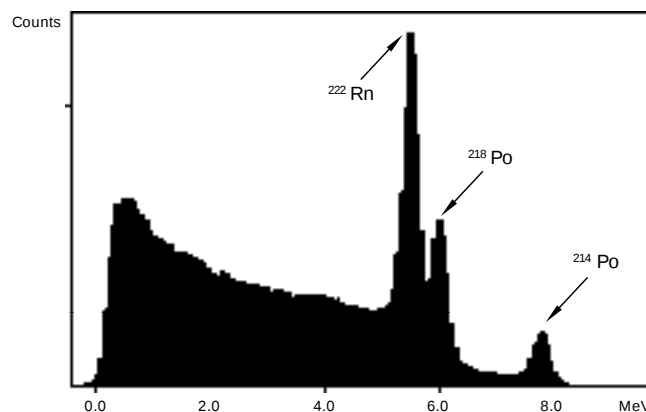
### ATMOS 12 DPX



1. Power switch
2. Fuse
3. Power connector
4. LC display
5. Communication port (RS232)
6. Start button
7. Integration time selector
8. Air inlet
9. Air outlet



Time distribution obtained with the ATMOS 12 DPX.



Energy spectrum obtained with the ATMOS 12 DPX.

#### Measurement range

1 - 100 000 Bq/m<sup>3</sup>.

#### Sensitivity

10 % standard deviation at 800 Bq/m<sup>3</sup> radon gas and 10 minutes measuring time. Upper limit for radon gas content is 100 000 Bq/m<sup>3</sup>.

Minimum Detectable Activity (MDA) at different measurement times:

|       |   |                        |
|-------|---|------------------------|
| 5 s   | — | 1800 Bq/m <sup>3</sup> |
| 1 min | — | 150 Bq/m <sup>3</sup>  |
| 1 hr  | — | 2 Bq/m <sup>3</sup>    |

#### Memory capacity

28 days of time distribution and 20 energy spectra.

#### Display

4 x 16 character LCD-type. Shows reading in Bq/m<sup>3</sup> (optional pCi/l) with uncertainty, chosen integration time, time since start, date and time.

#### Air flow

Air flow through the chamber is 1.0 l/min.

#### Communication port

RS 232 for connection with PC, printer or 'beeper'.

#### Humidity range

0 - 99 % RH.

#### Temperature range

0 - 50° C.

#### Software

ATMOS 32 PC for Windows 95/98/NT/2000/ME/XP. Software for evaluation of time distributions and energy spectra. Database for storing measurement reports is included.

Built-in software for direct print-out of values and time distributions on printer (without PC).

#### Dimensions

500 mm W x 385 mm H x 220 mm D  
(19.7 x 15.2 x 8.7 inches)  
Weight 14 kg (31 lbs)

#### Mains supply

110/230V, 50/60 Hz.

#### Options

- Beeper, useful when sniffing for radon entry points.



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