

Radon Monitor



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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Radon monitor / measures concentration of radon in buildings / software included in delivery / high accuracy / simple handling / long battery lifetime / various measuring modes

The digital Radon monitor measures the radon concentration within buildings. The radon monitor supports transferring all the collected data via wireless interface to a computer. The data can be then evaluated and analyzed by means of an accordant software. The radon monitor is a digital version of a detector recollecting smallest traces. The detection is supported due to the diffusion of the gasiform radon into a sample container. Inside this container the radon collapses and radiates onto a silicium photo diode. During the clash of the particles onto the diode, a low electricity signal is generated, which is reinforced by the measuring device. Thus the generated amplitude is then shown as a measuring value. The calculation of the mean value throughout the day is then generated by the number of the isotopes radon 222, polonium 218 and polonium 214. The calculation of the mean value for long-term measurements does then function only via the number of isotopes of radon 222. The battery automatically calibrated periodically, and the collected data is then stored with a 2 hours resolution. In order to maintain a reliable measurement at all times the device was calibrated with a reference instrument. These reference devices are calibrated in special laboratories. The lifetime of the battery is usually three years. For the operation of the radon monitor there is no special knowledge about the measurement method required. After the installation of the radon monitor in the relevant building, the device operates fully automated. Further information about the relevant guidelines as well as general information on radon is given below, as well as on the site > radon meters. Although the device features an opening on its backside, it should not be installed on a wall, since the measurements could be falsified by that. According to authorities and experts it is advised to place the device with the its display pointing upwards. Additionally it is important to install the radon monitor within rooms that are next to the base of the building. It should be considered that the device must be installed with a distance of at least 25 cm to the next wall, at least 50 cm above the floor and at least 150 cm from the next air in- and outlet. The radon monitor is immediately ready for operation after inserting the batteries.

Simple operation	With software included in delivery
Very reliable	Long battery lifetime
Measures up to 80 weeks	For gas measurement in buildings
LCD display	High accuracy

►► Technical Specifications Of The Radon Monitor :

Sensitivity at 100 Bq/m ³	
Mean value per day	2 countings/h
Mean value of 7 days	0.3 countings/h
Mean value of long-term measurements	0.3 countings/h

►► Accuracy :

Mean value after 7 days	< 10 % after one week at 100 Bq/m ³
Mean value of long term measurements	< 20 % after one month at 100 Bq/m ³

►► Capacity Of Internal Data Storage :

For 80 days	every 2 hours one measurement
For 80 weeks	measurement once a day

►► General Technical Specifications Of The Radon Monitor :

Power Consumption	< 250 μ W
Absolute accuracy	± 5 %
Dimensions	120 x 69 x 22.5 mm
Weight	130 g
Method	Energy spectroscopy
Constant diffusion time	80 min
Power supply	3 x AAA batteries 3 years battery lifetime

Regulatory compliances



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