

Soil-Gas Probe



Monitoring of Radon in soil gas (with AlphaGUARD DF2000)

Easy-to-use soil gas measuring probe for sampling as well as for continuous monitoring of radon in soil gas.

The soil gas probe has been reliably applied for many years in conventional soil gas analysis. It is suited for manual as well as for machine-driven propulsion (adaptor for striking tools of the types Cobra, Bosch, Wacker and Makita). The exchangeable drilling tip, the insertable capillary probe and the aqua-stop filter ensure easy and safe sampling.



The electronic flow controlled pumping unit which is inbuilt part of the AlphaPUMP DF2000 transports the soil gas from the tube tip into the measuring chamber of the radon monitor. The AlphaGUARD DF2000 as measuring- and recording device provides optimized features for soil gas measurement, e.g. short recovery time (typically: 5 min), even after measuring extremely high radon concentrations.

A sampling method, developed in cooperation with GGD Leipzig for the previous version PQ2000 PRO is provided and can be likewise applied to the AlphaGUARD DF2000. This approach is based on the experience with several thousand measurements. The expenditure of time for one measurement point is approx. 15 min.

The soil gas probe can optionally be completed by an inflatable bag (packer) for airtight measurements when using existing drill holes (\varnothing 35-42 mm). Moreover an extension set up to 10 m as well as lifting tools or hydraulic extraction devices are available for safely pulling out the rod.

MAIN CHARACTERISTICS

- Sampling and continuous monitoring
- Robust and reliable set-up for long-term use
- Field-proven sampling method and protocol
- Option: Differential Pressure Sensor Unit (DSP-5000) Direct determination of the radon concentration in water samples

SOIL GAS PROBE

COMPONENTS

- Drilling rod \varnothing 22 mm, length 1 m, hammering head and handle
- Exchangeable probe tip with airlock and rivet holder
- Capillary probe for reliable routing of the measuring gas
- Aqua-stop filter
- 2 m connection tube
- 50 rivets, spare parts
- Optional: mallet (plastic hammer)
- Optional: pulling device



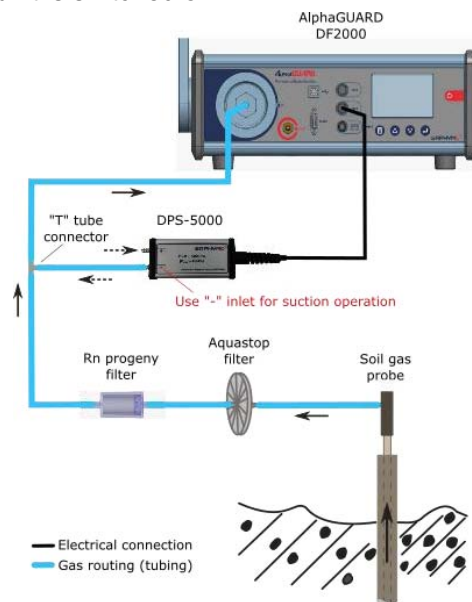
Pulling device



Option: Soil Gas Measurement using the Differential Pressure Sensor

The use of the Differential Pressure Sensor conclusions of the prevalent soil permeability at the site and hence to describe the specific variable “disposable radon”. When connected to the AlphaGUARD DF2000, to the monitor for storage.

Furthermore, the DSP-5000 prevents the internal pump from overloading. As soon as the threshold of exceeds 50 mbar, the pumping unit is switched off.



RELATED PRODUCTS

- Valve Selector Switch-Box for continuous multi spot measurement
- More about radon measurement: Ask for information about the AlphaGUARD product range

