Radon Scout PMT

Technical Data

Theory of operation	replaceable scintillation chamber (Lucas cell)
Chamber	Chamber volume: 235 ml Connection to the PMT by thread M80 x 1,5 2 quick lock connectors for 6 mm tubes
PMT	72 mm (diameter) entrance window Background < 0.01 counts/Minute (cpm)
Range	2 ... 10 MBq/m³
Sensitivity	22 cpm @ 1000 Bq/m³ (235 ml)
Detection limits (MDA)	2 Bq/m^3 (235 ml chamber)
Response time (95%)	120 Minutes
Pump	Membrane type approx. 0,25 L/min, manual switch
Internal sensors	Relative humidity (0 ... 100 %) Temperature (-20 ... 40 °C) Barometric pressure (800 ... 1200 mbar)
Sample interval	1.. 255 Minutes adjustable by Software
Data storage	2047 data records (non-volatile, circular architecture) Integrated real time clock
Power supply	2 x Mono cell (D size), replaceable, NiCd, NiMH, Alkaline or mains power adapter (included in delivery)
Battery operation	> 10 days (Alkaline battery without pump) > 4 days with continuous pumping
Control	Toggle switch Run/Stop with lock function Display 3 x 16 characters (US/SI units) with back-light Actual Radon; Humidity; Temperature; Pressure; Battery; Radon average since last start; Total time; Counts per Minute; counts per Interval; Selected cell size
Interface	RS232 for PC, modem Pulse output (option)
Dimensions	232 x 182 x 135 mm (without handle), weight 3.5 kg
Software	Radon Vision (included in delivery)
Accessory	Lucas cells, hard case, portable vacuum pump

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