Radon Monitor 환경부 형식승인 IAMS-2007-17호







용도

Applications

- 지하수, 하천수 및 해수의 라돈 가스 농도 측정
- 지하수의 해수 유출 경로 추적
- 건축물 및 다중 이용 시설의 라돈 가스 농도 측정
- 건축 및 토목 자재의 라돈 방출량 측정

특징

Features

- 표준 교정 장치로 국내에서 교정 가능
- 단시간 측정 및 연속 장기간 측정 가능
- 라돈 및 Thoron 측정 및 그래프 출력 가능
- 1시간 이내에 EPA Action Level인 4pGi/L 측정 가능
- 빠른 응답 속도와 신속한 영점 조정으로 수분 이내에 재측정 가능
- 0.2 pCi/L의 고감도 측정 가능
- 펌프 및 프린터 기본 탑재

S P E C I F I C A T I O N S	
Multi-Modes	Continuous Radon Gas Monitor
	Long-term/short-term screener
	Sniffer, with small tube "snout", to search for radon and thoron entry points
Multi-Measurements	Measures radon in air, soil, and water (with RAD H2O accessory)
Sensitivity	Monitor : 0.4 counts/min/pCi/L
	Sniffer: 0.2 counts/min/pCi/L

Range	0.1 to 20,000 pCi/L
Memory	1,000 previous radon concentrations, and associated data. Can be read out on LCD,
	printed out or downloaded to PC. Also shows high, low, average and standard
	deviation of readings
Principle of Operation	Electrostatic collection of alpha-emitters with spectral analysis
Built-in Air Pump	Nominal 1ℓ/min flow rate. Inlet air filter. Inlet and outlet air connectors
Spectrum Readout	Pulse height spectrum of alpha distribution verifies radon/thoron, and also shows the
	RAD7 is operating properly. Accurate determination of the alpha particle energies
	produces a radon signature that allows discrimination of radon and thron's alpha
Fast Low-Levle Readings	particles from those of other isotopes
	In continuous monitor mode, RAD7 measures the EPA action level of 4 pCi/L in just
	1 hour(60 minutes), with standard deviation of 10%. Since the RAD7 has virtually no
	background, it is much more sensitive than other electronic detectors, easily measuring down to 0.1 pCi/L
Recovery in Minutes	Recovers from high radon exposure with a 3.05 minute half-life : to less than 10% of
necovery in willules	peak value in 12 minutes ; to less than 1% of peak value in 30 minutes. Drops from
	20,000 to 1 pCi/L in less than an hour
Tampar Draof	A "Test Lock" command is programmed into the machine to secure your RAD7
Tamper Proof	against all kinds of intentional or unintentional tampering
Auto Modo	This setting starts a test run in SNIFF mode, then switches to NORMAL mode after
Auto Mode	
	the first 3 hours. No more waiting for equilibrium. Gives quick response, followed by
	statistical precision
Continuous Updating	Gives continuous update of radon levels so you can see the trend at all times, not
	just at pre-set intervals
Computer LCD Display	2 line ×16 character, alpha-numeric. easy to read
Audible Radon Count	Indicates presence and intensity of radon and thoron. May be turned on or off
Power	AC/battery powered - 5 AH 6V batteries. Automatic charge when plugged in.
	Continuous battery operation : 24 hours sniffing : 72 hours continuous monitoring
RS-232 Port	Computer or modem hookup
Operating Range	Temperature : $5\%\sim45\%$
	Humidity: $0 \sim 100\%$, non-condensing
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Weight/Size	4.9kg - 24×19×27cm
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Case Material C O N F I G U R A T I O N S Radon Moniter RADLINK Remote Control Software H.P. Infrared Printer & 3 extra rolls paper 2 sets Velcro Tabs	4.9kg - 24×19×27cm High density polyethylene 1 ea 1 ea 1 ea
Case Material CONFIGURATIONS Radon Moniter RADLINK Remote Control Software H.P. Infrared Printer & 3 extra rolls paper 2 sets Velcro Tabs 4 Drying Tube	4.9kg - 24×19×27cm High density polyethylene 1 ea 1 ea 1 ea 1 ea 1 ea
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