

RADON IN AIR COMPARISON CHART

RADON IN AIR MODEL	TBM-IC-RN	RnCAM	FR-32/42	FR-5-FS	VAP-X-RADON SOIL EXTRACTION SYSTEM	RANDFAN-SX	FM-9-MA2 Series FM-9-Thoron	Rn-EX-DET (2) Detectors (1) AIR Rn-CAM (1) Water NEX-ALPHA	RnCAM-4-AWS 2) Integrated Detectors (1) AIR-TBM - Ambient Air Particulates with Radon Progeny (1) Radon in Ambient Air with no Particulates; Vapor in Water & Soil	
FEATURES	1 HOUR	5-30 MINUTES	FR-32-Week-30 Days FR-42-Few Minutes	3 MINUTES	User Settable	User Settable	User Settable	(1) AIR Rn-CAM 5-MINUTES	RnCAM 5-MINUTES	AIR-TBM 1 HOUR
RANGE	10 pCi/L – 1 μ Ci/l (70.37 Bq/L – 37,000 Bq/l)	0.1-2000 pCi/L	FR-32/42 - 0.03pCi/L	1×10^{-13} to 1×10^{-7} μ Ci/cc	1×10^{-6} μ Ci/ml to 1.0 μ Ci/ml (37 KBq/ml – 3.7×10^{10} Bq/l)	0.1-600 pCi/l	100 pCi/liter - 2000 pCi/liter	0.1-2000 pCi/l	0.1-2000 pCi/l	0.01 to 100 mR/hr.
Lowest Detection Level	5×10^{-11} μ Ci/ml (2 Bq/m ³)	0.1 pCi/ml	0.03 pCi/	1 pCi/L	1×10^{-5} uCi/cc of air. (370 kBq/m ³)	0.1 pCi/ml	2,000 pCi/L	2000 pCi/ml	0.1 pCi/ml	3×10^{-9} μ Ci/cc
Time Required	1 Hour	5 Minutes	1 Week – FR-32 Few Min.-FR-42	3 Minutes	User Settable	User Settable	User Settable	5 Minutes	5 Minutes	1 HOUR
Accuracy of mid-range measurement	+/- 20% or better	+/- 10% or better	+/- 10% or better	+/- 20% or better	+/- 10% or better	+/- 10% or better	+/- 10% or better	+/- 10% or better	+/- 10% or better	+/- 20% or better
	1 MINUTE	30 MINUTES	1 Week – FR-32 Few Min.-FR-42	10 MINUTES	USER SETTABLE	USER SETTABLE	USER SETTABLE	30 MINUTES	30 MINUTES	5 DAYS
Lowest Detection Level	2×10^{-9} μ Ci/ml (74 Bq/m ³)	0.1 pCi/ml	0.03 pCi/L	0.1 pico Ci/L	1×10^{-5} μ Ci/cc (370 KBq/m ³)	0.1 pCi/ml	2,000 pCi/L	0.1 pCi/ml	0.1 pCi/ml	2×10^{-11} μ Ci/cc
Time Required	1 Minute	30 Minutes	1 Week – FR-32 Few Min.-FR-42	10 Minute	User Settable	User Settable	User Settable	30 Minutes	30 Minutes	5 Days
Accuracy of mid-range measurement	+/- 10% or better	+/- 10% or better	+/- 10% or better	+/- 10% or better	+/- 10% or better	+/- 10% or better	+/- 10% or better	+/- 10% or better	+/- 10% or better	+/- 10% or better



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DIVISION OF



0700B-UCLC

RADON IN AIR MODEL	TBM-IC-RN	RnCAM	FR-32/42	FR-5-FS	VAP-X-RADON	RANDFAN-SX	FM-9-MA2-R	Rn-EX-DET (2) Detectors (1) AIR Rn-CAM (1) Water NEX-ALPHA	RnCAM-4-AWS 2) Integrated Detectors (1) AIR-TBM - Ambient Air Particulates with Radon Progeny (1) Radon in Ambient Air with no Particulates; Vapor in Water & Soil	
TECHNOLOGY								RnCAM	RnCAM	AIR-TBM
Sensor	Flow Through Ion Chamber	Pulsed Ion Chamber	FR-32– (3) TLD Chips FR-42 – GM tube	Gamma Scintillation NaI(Tl)	Pulsed Ion Chamber	Pulsed Ion Chamber	Solid State Alpha plus Radon Specific Ion Chamber	Pulsed Ion Chamber	Pulsed Ion Chamber	T-1190 GM Pancake
Volume / Size	300 (ml) milliliters	300 (ml) milliliters	462 inches ³ (7.5L)	2"x2"	300 (ml) milliliters	800 (ml) milliliters	Solid State Alpha 490 mm ²	300 (ml) milliliters	300 (ml) milliliters	1.5 mg/cm ₂ pancake tube
Background Chamber	No	Dual Chamber Gamma			Dual Chamber Gamma			Dual Chamber Gamma	Dual Chamber Gamma	
Portable	Yes	Yes	Portable	Yes	Yes	Yes or Installed	Transportable or Benchtop	Yes	Yes	Yes
Fixed Use	No	Optional	No	No	No	Optional	No	Optional	Optional	Optional
Power	Battery Only	Rechargeable Battery or AC	Battery Only	AC or Rechargeable Battery with charger	Rechargeable Battery or AC	AC with Rechargeable Battery backup	Rechargeable Battery or AC	Rechargeable Battery or AC	Rechargeable Battery or AC	Battery Only OPTIONAL: Rechargeable Battery
Display	6 Digit LCD	6 Digit LED	FR-32– No FR-42 – Yes	6 Digit LCD	6 Digit LED	6 Digit LED	6 Digit LED	6 Digit LED	6 Digit LED	Large 6 digit LCD
Alarm	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Data Output	No	Data Archive & Retrieval Serial RS-232	No	Serial RS-232/Optional USB	Data Archive & Retrieval Serial RS-232	Serial RS-232	Serial RS-232	Data Archive & Retrieval Serial RS-232	Data Archive & Retrieval Serial RS-232	OPTIONAL: 2-way Serial port
Pump	Optional	Built In	No	Yes	Built In	Built In	Built In	Built In	Built In	Adjacent Built In
Weight	26 oz with batteries	8 lbs (3.6 kg)	13 lbs (5.9 kg)	Electronics PRS-7 – 5 lbs with batteries Detector & Quiet Pump – 34 lbs	Electronics Rn-CAM 8 lbs (3.6 kg) plus Extraction tools	12 lbs (5.4 kg)	Electronics & Detector 35 lbs Pump 14.4 lbs (6.5 kg)	8 lbs (3.6 kg)	8 lbs (3.6 kg)	1 lb (0.45 kg)
Draws Air From	Room Air (Optional 'Sniffer' Hose)	Glove-box, Smoke-Stack. Room Air	Room Air	Room Air	Environmental Air	Glove-box, Smoke-Stack. Room Air	Glove-box, Smoke-Stack. Room Air	Entrained Gas, Glove-box, Smoke-Stack. Room Air	Environmental ambient air particulates Vapor from Water and soil,	Environmental ambient air particulates with radon progeny



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