

PORTABLE RADON MONITOR

Model ~ TBM-IC-RN

FEATURES:

- COMPACT DIGITAL READOUT:
 - 6 Digit Rate
 - 8 Digit Integrate
 - SMALL LIGHTWEIGHT 26 oz.
 - TBM PACKAGE
 - LINEAR RESPONSE
 - (2) NON-PRESSURIZED INTERCHANGEABLE EASY CLEAN ION CHAMBERS
 - ❖ SOLID WALL CHAMBER
 - ❖ OPEN SCREEN CHAMBER (SHOWN)
 - FAST RESPONSE
 - WIDE RANGE
 - EASY CHANGE ION CHAMBERS
- OPTIONAL AIR PUMP FOR SOLID WALL CHAMBER**



TBM-IC-RN OPEN SCREEN CHAMBER

APPLICATION:

Whenever a fast, sensitive Radon Detector is needed, the **TBM-IC-RN** detects 10 picoCi/l in 5 seconds & detects public release level in less than 10 minutes.

The **TBM-IC-RN** ion chamber is small and lightweight. It uses stable, essentially drift-free electrometer technology.

DESCRIPTION:

The **TBM-IC-RN** consists of a 3" dia x 5" long air ion chamber coupled to a stable solid state MOSFET input electrometer with built in Analog to Digital converter to read out directly in a nanoCi/liter. Range is 10 picoCi/l to 1 μ Ci/l. Easy change Ion Chambers allow conversion between chambers.

Two non-pressurized ion chambers are included; an open screen chamber, and a solid wall chamber.

OPEN SCREEN CHAMBER:

- ❖ Designed for measuring ambient radon and no air pump is required. A cloth sleeve is provided as an accessory.

SOLID WALL CHAMBER:

- ❖ Designed for a sample to be pulled from a closed space such as a hood, glove box, or other enclosed spaces. A pump is required for the solid wall chamber & is offered as an option.
- ❖ It has 2 self-sealing detachable hose barbs providing immediate grab sample and read out, eliminating excess labor, delay, & cost.
- ❖ User can collect sample air and measure in place or disconnect the 2 hoses thus sealing the chamber & relocate to a cleaner environment to take the reading from the captured grab sample.



TECHNICAL ASSOCIATES

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SPECIFICATIONS:

Detector: (2) Non-pressurized interchangeable ion chambers 3" dia x 5" long. Internal volume 600 cc.
❖ Open Screen Chamber
❖ Solid Wall Chamber with two self-sealing detachable hose barbs

Chamber Walls: Both chambers have Nickel plated aluminum.
Open screen chamber has stainless steel mesh & provided cloth sleeve.

Readout: LCD: 6 Digit Rate; 8 Digit Integrate.

Indicator Lamp: Green LED for High Level. Red LED for Over-Range.

Range:

Rate 6 digit 10 picoCi/liter to 1 μ Ci/liter in a single range.

Integrate 8 digits 1 picoCi/liter* to 100,000 pCi/liter in a single range.

*less than 1 minute Indication FOR VERY HIGH LEVELS.

NOTE: **TBM-IC-RN** in Integrate Mode has no timer. User must provide clock or stopwatch

Air Flow: Open Screen Chamber Passive Diffusion

Optional: Solid Wall Chamber

Electrometer: Solid State MOSFET input.

Electronics: Analog to Digital converter LCD drivers.

Batteries: 15 ea. (Button) NEDA CR-1220 - shelf life 7 years.

6 ea. (AA) – 1000 hr. Read Out

Dimensions & Weight:

Dimensions: 11" x 4" x 8" including handle and optional pump.

Weight: 26 oz. complete with batteries.

Optional: Closed Wall Chamber: Air Pump - 1 lb

OPTIONS: Readout in Si units: KBq/m³ User Specified at time of order

Pump: Closed Chamber - Lightweight Battery Powered Pump

Air Flow: Flow Rate: 4 CFH..



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TBM-IC-RN SOLID WALL CHAMBER WITH HOSE BARBS



TBM-IC-RN SOLID WALL CHAMBER WITH AIR PUMP

Working Level & Rn-222 Radon Gas vs. Radon Daughters:

- Option 1:** Particulate pre-filter removes much of the Radon daughters from the in-coming air stream but lets the Radon gas pass into the ion chamber for measurement.
- Option 2:** Activated charcoal pre-filter stops much of the Radon gas.



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