

Features

- Compact Digital Readout:6 Digit RateDigit 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

Application

Whenever a fast, sensitive Radon Detector is needed, the **TBM-IC-RN** detects 10 pCi/l in 5 seconds and 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.

Portable Radon Monitor

Model: TBM-IC-RN

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 pCi/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.

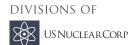
SOLID WALL CHAMBER:

- 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 and is offered as an option.
- It has 2 self-sealing detachable hose barbs providing immediate grab sample and read out, eliminating excess labor, delay, and cost.
- User can collect sample air and measure in place or disconnect the 2 hoses thus sealing the chamber and relocate to a cleaner environment to take the reading form the captured grab sample.





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Portable Radon Monitor

Model: TBM-IC-RN

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 and 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 μCi/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 each (Button) NEDA CR-1220 - shelf life 7 years

6 each (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









Portable Radon Monitor

Model: TBM-IC-RN



TBM-IC-RN Solid Wall Chamber With Hose Barbs



TBM-IC-RN Solid Wall Chamber With Air Pump

Working Level and 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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