

PORTABLE RADON MONITOR

Model ~ TBM-IC-RN

FEATURES:

- COMPACT DIGITAL READOUT:
 - 6 Digit Rate
 - 8 Digit Integrate
- FOUR DECADES; LINEAR RESPONSE
- SMALL LIGHTWEIGHT 26 oz.
- TBM PACKAGE

OPTIONAL: RS232 SERIAL PORT / USB

- (2) NON-PRESSURIZED INTERCHANGEABLE EASY CLEAN ION CHAMBERS
 - ❖ OPEN SCREEN CHAMBER (SHOWN) - **IP00**
 - ❖ SOLID WALL CHAMBER – **IP63**
 - ❖ **OPTIONAL: AIR PUMP FOR SOLID WALL CHAMBER**
- FAST RESPONSE; WIDE RANGE
- EASY CHANGE ION CHAMBERS

OPTIONAL AIR PUMP FOR SOLID WALL CHAMBER

- **IP63; CE MARK**



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 use a TA air pump, AC or DC, or user's own pump to 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.

***Note:** TA also makes ion chambers that measure up to 10 million R/hr

[See ION CHAMBER COMPARISON CHART](#)

[See RADON IN AIR COMPARISON CHART](#)



TECHNICAL ASSOCIATES

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DIVISION OF



USNUCLEARCORP

OTCQB-UCLC

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
- ❖ Solid Wall Chamber with 4 cfm air pump

Chamber Walls: Chambers have Nickel plated aluminum.

Open screen chamber has stainless steel mesh & provided cloth sleeve.

ELECTRONICS:

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 pCi/liter to 1 μ Ci/liter (370 Bq/m³ to 3.7 x (ln 10⁷ Bq/l) in a single range.

Integrate 8 digits 1 pCi/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.

Batteries: 6 ea. (AA) – 1000 hr. Read Out

Dimensions & Weight:

Dimensions: 11" x 4" x 8" (28 x 10.6 x 20.3 cm) including handle and optional pump.

Weight: 26 oz.(0.73 kg) complete with batteries.

Air pump for Closed Wall Chamber: Air Pump AC or DC - 1 lb (0.4 kg)

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

Pump: Closed Chamber - Lightweight Battery Powered Pump

Pump: Closed Chamber – AC Powered Pump

Air Flow: Flow Rate: 4 cfm..



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TBM-IC-RN SOLID WALL CHAMBER WITH HOSE BARBS



TBM-IC-RN SOLID WALL CHAMBER WITH BATTERY POWERED AIR PUMP

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

- A:** A 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. Includes filter holder and 50 filters.
- B:** A gaseous Radon pre-filter of Activated charcoal pre-filter stops much of the Radon gas. Includes 3 filters.



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