



# Rugged Ion Chamber TBM

Model - TBM-IC-MVR and TBM-IC-LE

## Features

- Sees Beta, Gamma, X-Ray
- Digital Readout: 6 Digit-rate, 8 Digits Integrate
- Dose Rate and Total Dose Read Out
- Small Lightweight Under 3 lbs.
- No Range Switching
- Flat Response - Sealed Ion Chamber
- Sees Axially Below 5 KeV Gamma or X-Ray
- Radial (Sideview) Detection Down to 20KeV (**TBM-IC-LE**)
- Fast Response
- Wide Range: 0.1 Mr/hr To 50,000 Mr/hr
- **Optional:**  $\mu\text{Sv/h}$  and  $\mu\text{Sv}$  Dose Readout



Fluted Chamber

## Application

Whenever a fast, sensitive ion chamber instrument is needed, Models **TBM-IC-MVR & TBM-IC-LE** is the preferred choice. These sealed ion chambers are small, lightweight, rugged, and based on essentially drift-free electrometer technology.



**TECHNICAL ASSOCIATES  
OVERHOFF TECHNOLOGY**

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303

PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@USNUCLEARCORP.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISIONS OF  
 USNUCLEARCORP  
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## Model - TBM-IC-MVR and TBM-IC-LE

### Description

The Models **TBM-IC-MVR & TBM-IC-LE** consist of a 3" dia x 5" long sealed ion chamber coupled to a stable solid state MOSFET input electrometer with built in A to D converter to read out directly in mR/h or mR\*. Rate range is 0.1 mR/h to 50,000mR/h in a single range. Dose range is 0.001mR - 10R in a single range. The sealed ION Chamber obviates the need to make temperature and pressure corrections and eliminates the need for dessicant change.

**Model TBM-IC-LE fluted chamber** sideview sensitivity is down below 20 KeV and end-on below 5 KeV. The Thin (0.5 mg/cm<sup>2</sup>) Kapton window allows high sensitivity readings for low energy Beta such as Tc-99 in addition to other Betas, Gammas and X-Rays. **Model TBM-IC-MVR has a fluted chamber option.**

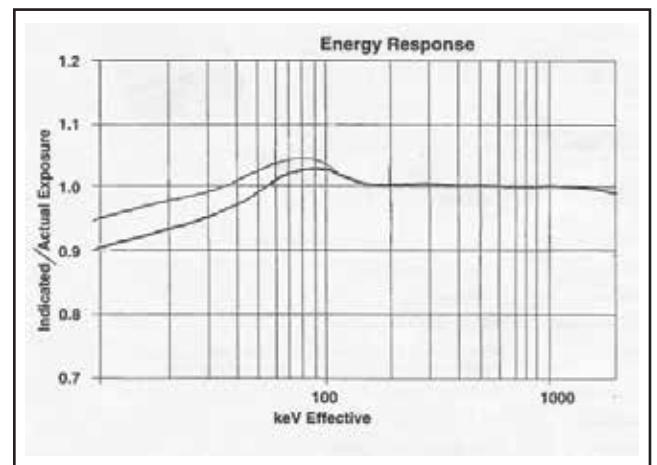
\*  $\mu$ Sv/h and  $\mu$ Sv dose readout is optional.

### Specifications

- Detector: Sealed Air ion chamber 3" dia x 5" long. Internal volume 450 cc
- Wall and Cap: Aluminum wall, plastic plus graphite lined and 540 mg/cm<sup>2</sup> cap.

#### Optional 1g/cm<sup>2</sup> walls

- Window: 2.0" dia. x 0.5 mg/cm<sup>2</sup> Kapton
- Readout: LCD 8 digits with **backlight**
- Indicator Lamp: Green LED 10 pulses/sec per mR/h  
Red Over-Range Indicator
- Range: Rate 8 digit 0.1 mR/h to 50,000 mR/h in a single range.  
Integrate 8 digits 0.001 mR to 10R in a single range
- Audio Alarm: User settable anywhere within TBM range
- Electrometer: Solid State MOSFET input
- Electronics: A-D converter LCD drivers
- Batteries: 22 ea. (Button) NEDA CR-1220 - 7 years life.  
6 ea. (AA) NEDA 15A – 200 hour life
- Dimensions: 5-1/2" x 3-1/2" x 8" including handle
- Weight: 2.9 lbs. complete with batteries



**Options:** Readout in Si units: Sv and Sv/h

#### Optional Chamber Sleeves:

- X-Ray-SLV is X-Ray compliance sleeve with 10cm<sup>2</sup> aperture
- Deep dose Gamma sleeve



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