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 & 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 µSv/h & µSv DOSE READOUT

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
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ION CHAMBER TBM
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 50,000 mR/h in a single range. Dose range is 0.001 mR - 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/cm2) 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.

µSv/h and µSv dose readout is optional.

SPECIFICATIONS:

Detector: Sealed Air ion chamber 3” dia x 5” long. Internal volume 450 cc
Wall & Cap: Aluminum wall, plastic plus graphite lined and 540 mg/cm² cap. Optional 1g/cm² walls.
Window: 2.0” dia. x 0.5 mg/cm² 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:
  o X-Ray-SLV is X-Ray compliance sleeve with 10cm² aperture.
  o Deep dose Gamma sleeve.

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