

LOW RANGE ION CHAMBER TBM

Model # TBM-ICLR

FEATURES:

- MEASURES DOWN TO BACKGROUND
- DOSE RATE & TOTAL DOSE READ OUT
- MEASURES LOW ENERGY GAMMAS AND X-RAYS
- DIGITAL READOUT: 8 digit-rate, 8 digits integrate
- SMALL LIGHTWEIGHT 26 oz.
- TBM PACKAGE
- FLAT RESPONSE - FREE AIR ION CHAMBER
- SEES AXIALLY BELOW 5 KEV GAMMA OR X-RAY
- SEES ALPHA, BETA, GAMMA, X-RAY
- FAST RESPONSE
- WIDE RANGE: 0.01 mR/hr to R/hr



Figure 1: TBM-ICLR

APPLICATION: Whenever a fast, sensitive ion chamber instrument is needed, the **TBM-ICLR** is the latest in a series. The **TBM-ICLR** ion chambers are now more sensitive. Based on newest more stable, essentially drift-free electrometer technology.

DESCRIPTION: The **TBM-ICLR** consists of a 5" dia x 12" long air 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 0.01 mR/h to 1 R/h in a single range. Dose range is 0.001mR - 10R in a single range. 430 mg/cm² graphite lined methacrylate walls accurate "air equivalence." Thin (0.5 mg/cm²) Mylar window allows high sensitivity readings for alpha and for low energy beta such as C¹⁴ and low energy Gammas and X-rays, in addition to higher energy Betas and Gammas.

SPECIFICATIONS:

- Detector:** Free Air ion chamber 5" dia x 12" long. Internal volume 3 liters.
- Wall & Cap:** Methacrylate, graphite lined 430 mg/cm² walls and 540 mg/cm² cap.
- Window:** 4" dia. x 0.5 mg/cm² Mylar.
- Readout:** LCD 8 digits.
- Indicator Lamp:**
 - Green LED 100 pulses/sec per mR/h.
 - Red Over-range Indicator.
- Range:**
 - Rate 8 digit 0.01 mR/h to 1 R/h in a single range.
 - Integrate 8 digits 0.001 mR to 10 R in a single range.
- Electrometer:** Solid State MOSFET input.
- Electronics:** A-D converter LCD drivers.
- Batteries:**
 - 20 ea. (Button) NEDA CR-1220 - shelf life 7 years.
 - 6 ea. (AA) NEDA 15A - 1000hr.
- Dimensions:** 14" x 12" x 5.5" including handle.
- Weight:** 2.2 kg. complete with batteries.
- Options:** Readout in SI units: Sv and Sv/h.

T_A TECHNICAL ASSOCIATES

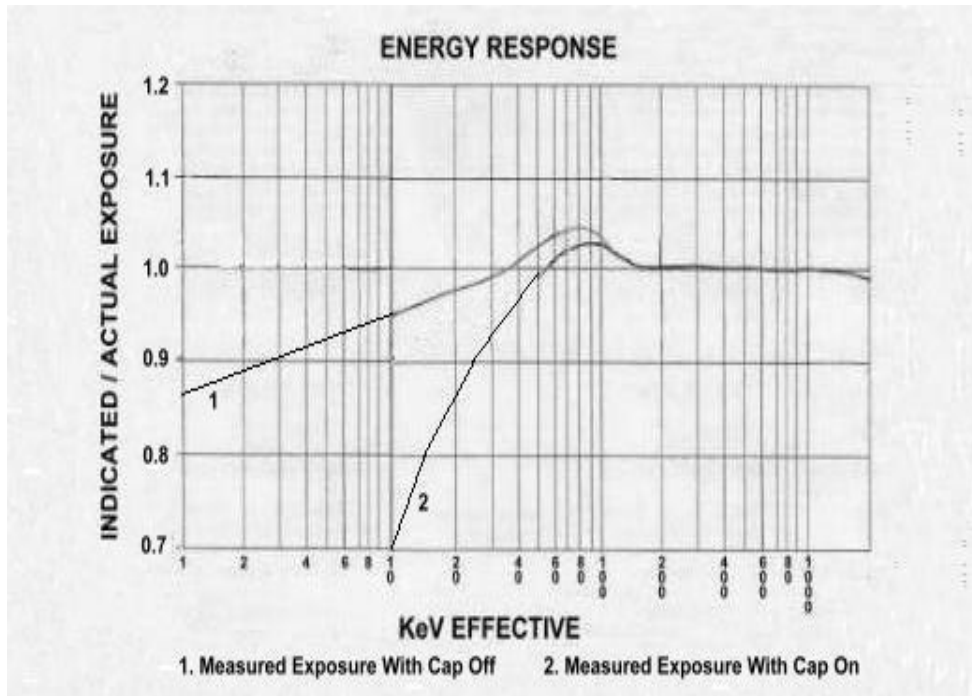
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Figure 2: TBM-ICLR



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