ALL GAMMA INCLUDING LOW RANGE & X-RAY PORTABLE ION CHAMBER

Model ~ TBM-IC-LR

FEATURES:•

- MEASURES DOWN TO BACKGROUND
- MEASURES ALL GAMMAS INCLUDING LOW ENERGY GAMMAS AND X-RAYS
- SEES AXIALLY BELOW 5 KEV GAMMA OR X-RAY
- SEES ALPHA, BETA, GAMMA, X-RAY
- DIGITAL READOUT:
  8 digit-rate, 8 digits integrate
- WIDE RANGE: 0.01 mR/hr to 1 R/hr
- DOSE RATE & TOTAL DOSE READ OUT
- LIGHTWEIGHT.
- TBM PACKAGE
- FLAT RESPONSE - FREE AIR ION CHAMBER
- FAST RESPONSE

APPLICATION:

A fast, sensitive portable ion chamber for ALL Gammas including Low Energy Gammas and X-Rays. The TBM-IC-LR is based on stable, essentially drift-free electrometer technology.

DESCRIPTION:

- A 5" dia x 7.5" long air ion chamber is coupled to a stable solid state MOSFET input electrometer.
- The built in A to D converter reads 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 0.05 µR – 100,000 µR in a single range.
- 430 mg/cm^2 graphite lined methacrylate walls provides for accurate ``air equivalent'' response.
- Thin (0.5 mg/cm^2) Mylar window allows high sensitivity readings for:
  - Alpha & Low Energy Betas such as C^{14}
  - Low Energy Gammas & X-Rays
  - Higher Energy Betas & Gammas

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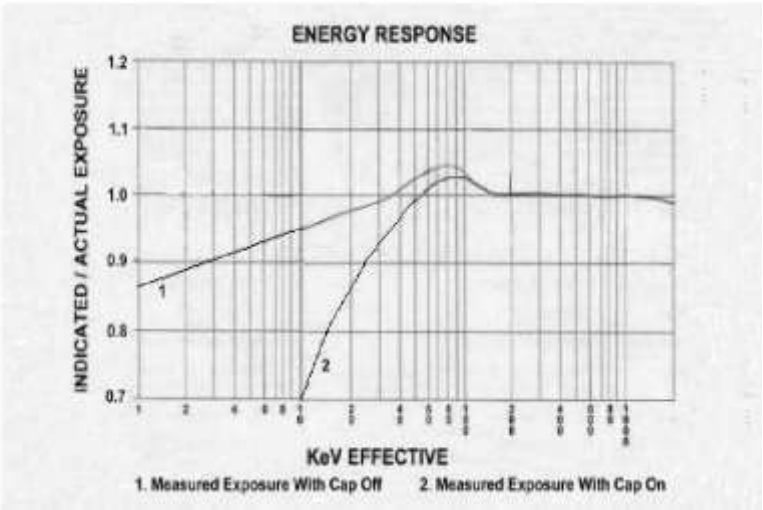
SPECIFICATIONS:

Detector:	Free Air ion chamber 5" dia x 7.5" long. Internal volume 2 liters.
Wall & Cap:	Methacrylate, graphite lined 430 mg/cm^2 walls and 540 mg/cm^2 cap.
Window:	4" dia. x 0.5 mg/cm^2 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 0.05 µR – 100,000 µ 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.

WEIGHT & DIMENSIONS:

Dimensions:	14" L x 9" H x 5.8" W including handle.
Weight:	2.2 kg. complete with batteries.

OPTIONS: Readout in Si units: µSv and µSv/h.



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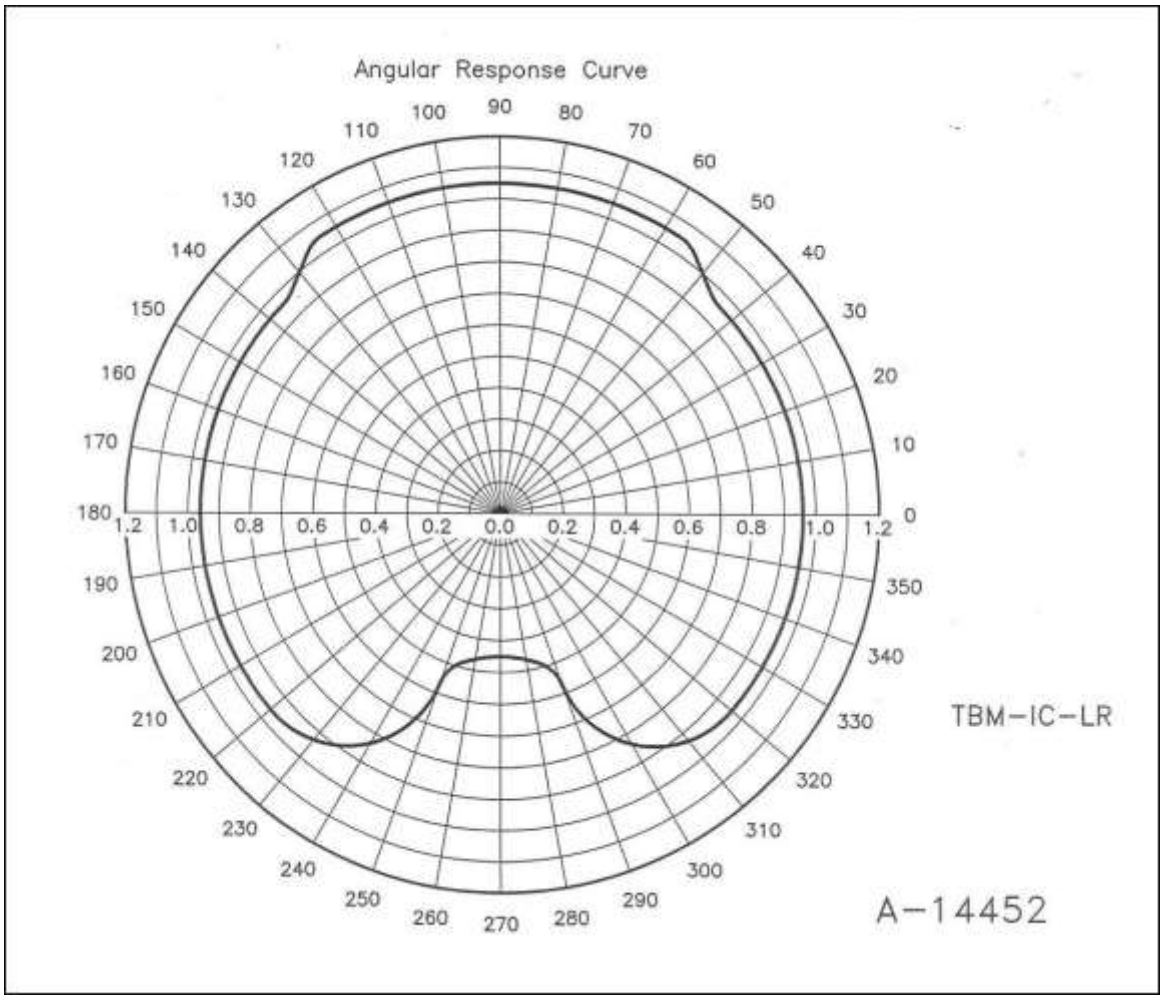

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