

SENSITIVE INTEGRATING ION CHAMBER

Model ~ TBM-IC-AJI

FEATURES

- SEES X-Ray PULSE DOWN TO 0.2 μ R
 - mR to 10 R TOTAL DOSE
- WIDE RANGE: 0.1 mR/hr to 10 R/hr- DOSE RATE (Standard)
- DIGITAL READOUT: 8 digit-rate, 8 digits integrate
- DOSE RATE & TOTAL DOSE READ OUT
- LIGHTWEIGHT 28 oz. (870 grams)
- TBM PACKAGE
- FLAT RESPONSE - FREE AIR ION CHAMBER
- SEES BELOW 2 KEV GAMMA OR X-RAY
- SEES ALPHA, BETA, GAMMA, X-RAY
- **IP63; CE MARK**



APPLICATION:

The **TBM-IC-AJI** is a fast, sensitive ion chamber instrument. The **TBM-IC-AJI** ion chamber is light weight and stable with essentially drift-free electrometer technology.

DESCRIPTION:

- The **TBM-IC-AJI** ion chamber is 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 9.999 R/h in a single range.
- Dose range is 0.0001mR - 10R in a single range.
- 180 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
- Detects X-rays down to 2 KeV as well as higher energy Betas and Gammas.



TECHNICAL ASSOCIATES

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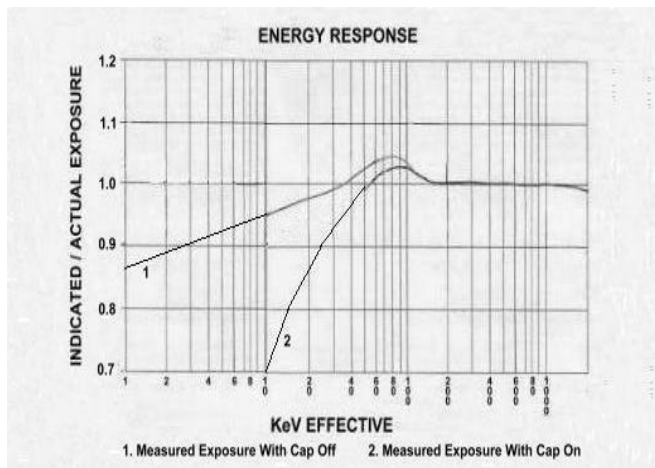
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TICKER UCLE

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SPECIFICATIONS:

Detector: Free Air ion chamber 3.7" dia x 6" long. Internal volume almost one liter

Wall & Cap: Methacrylate, graphite lined 180 mg/cm² walls and 540 mg/cm² cap.

Window: 3.0" dia. x 0.5 mg/cm² Mylar.

Readout: LCD 8 digits.

Energy Response: CAP-OFF: Sensitive down to 2 KeV +/- 20% 4 KeV to 6 MeV

Indicator Lamp: **Green LED** 10 pulses/sec per mR/h. **Red:** Over-Range Indicator

Range:

Rate 8 digit 0.01 mR/h to 1.0 R/h in a single range

Integrate 8 digits user settable, as low as 0.01uR Dose

Electrometer: Solid State MOSFET input.

Electronics: A-D converter LCD drivers.

Batteries:

1 set of CR-1220 Lithium lasts for the shelf life 7 years.

6 ea. (AA) - 1000hr.NEDA 15A – 1000 hrs.

(Longer with Alkaline or Li-ion or Nimh AA cells)

Dimensions: 6" x 4" x 12" including handle.

Weight: 28 oz with batteries.

OPTIONS:

- Readout in Si units: Sv and Sv/h. (TBM-IC-AJI-SV)
- Thicker chamber wall to 1g/cm² (TBM-IC-AJI-1g)
- Thin Cap same thickness as chamber side wall (180 mg/cm²)
- Closed chamber (no mylar window).
- Alarm light on Mr/Hr- Rate Mode
- Serial RS-232 Dataport plus software.



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