

# SENSITIVE INTEGRATING ION CHAMBER

Model ~ TBM-IC-AJI

## FEATURES

- SEES X-Ray PULSE DOWN TO 0.2 $\mu$ R
  - mR to 10 R TOTAL DOSE
- WIDE RANGE: 0.1 mR/hr to 10 R/hr-(1 uSv/h to 100 Sv/h) DOSE RATE (Standard)
- FIVE AND A HALF DECADES
- 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
- **OPTIONAL:** RS-232 SERIAL PORT
- **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 (1 uSv/h to 100 mSv) in a single range.
- **Dose range** is 0.0001mR - 10R/h (1 pR/h to 100 mSv) in a single range.
- 180 mg/cm<sup>2</sup> graphite lined methacrylate walls accurate "air equivalence".
- Thin (0.5 mg/cm<sup>2</sup>) Mylar window allows high sensitivity readings for Alpha and for low energy Beta such as C<sup>14</sup>
- Detects X-rays down to 2 KeV as well as higher energy Betas and Gammas.

\***Note:** TA also makes ion chambers that measure up to 10 million R/hr

See [ION CHAMBER COMPARISON CHART](#)



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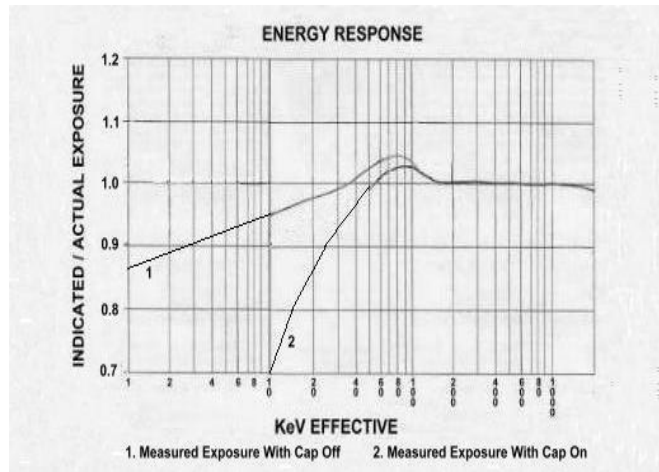


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Model ~ TBM-IC-AJI



## SPECIFICATIONS:

**DETECTOR:** Free Air ion chamber 3.7" dia x 6" long. Internal volume almost one liter  
**Wall & Cap:** Methacrylate, graphite lined 180 mg/cm<sup>2</sup> walls and 540 mg/cm<sup>2</sup> cap.  
**Window:** 3.0" dia. x 0.5 mg/cm<sup>2</sup> Mylar.  
**Energy Response:** CAP-OFF: Sensitive down to 2 KeV +/- 20% 4 KeV to 6 MeV

## ELECTRONICS:

**Readout:** LCD 8 digits.  
**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 (1  $\mu$ Sv to 10 mSv) in a single range  
Integrate 8 digits user settable, as low as 0.01mR (1 $\mu$ Sv) 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:

- Closed chamber (no mylar window).
- Alarm light on mR/h Rate Mode
- Serial RS-232 Data port plus software.
- Readout in Si units: Sv and Sv/h. (TBM-IC-AJI-SV)
- Thicker chamber wall to 1g/cm<sup>2</sup> (TBM-IC-AJI-1g)
- Thin Cap same thickness as chamber side wall (180 mg/cm<sup>2</sup>)



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