



# 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- Dose Rate (Standard)
- Digital Readout: 8 digit-rate, 8 digits integrate
- Dose Rate and 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 0.0001 mR - 10R 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 C14
- Detects X-rays down to 2 KeV as well as higher energy Betas and Gammas.



## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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## Model – TBM-IC-AJI

### Specifications

<b>Detector:</b>	Free Air ion chamber 3.7" dia x 6" long. Internal volume almost one liter
<b>Wall and Cap:</b>	Methacrylate, graphite lined 180 mg/cm <sup>2</sup> walls and 540 mg/cm <sup>2</sup> cap.
<b>Window:</b>	3.0" dia. x 0.5 mg/cm <sup>2</sup> Mylar.
<b>Readout:</b>	LCD 8 digits.
<b>Energy Response:</b>	CAP-OFF: Sensitive down to 2 KeV +/- 20% 4 KeV to 6 MeV
<b>Indicator Lamp:</b>	Green LED 10 pulses/sec per mR/h. Red: Over-Range Indicator
<b>Range:</b>	

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

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

**Electrometer:** Solid State MOSFET input.

**Electronics:** A-D converter LCD drivers.

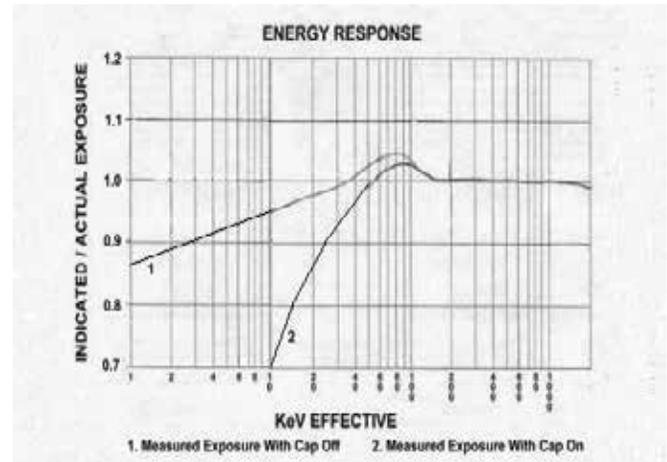
**Batteries:**

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/cm<sup>2</sup> (TBM-IC-AJI-1g)
- Thin Cap same thickness as chamber side wall (180 mg/cm<sup>2</sup>)
- Closed chamber (no mylar window).
- Alarm light on Mr/Hr- Rate Mode
- Serial RS-232 Dataport plus software.



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