

WIDE RANGE ION CHAMBER

Model ~ TBM-IC-HLS

FEATURES:

- SEES X-Ray PULSE DOWN TO 0.002 μ R
- 1pSv to 10 mSv
- WIDE RANGE: 0.1 mR/hr to 1,000 R/hr- RATE
- 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
- CORRECT RANGE for ANSI N42.33 *



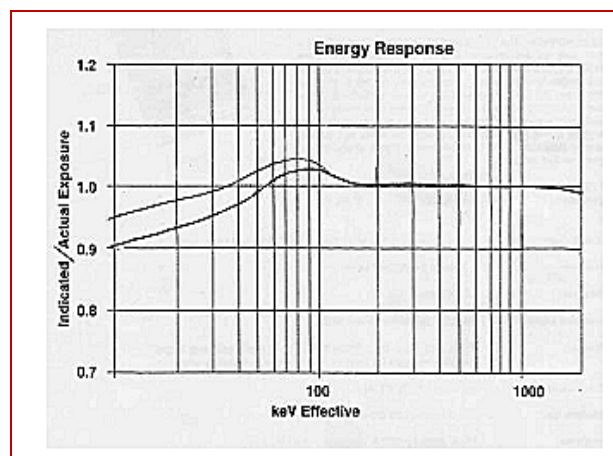
APPLICATION:

Whenever a fast, sensitive ion chamber instrument is needed, the **TBM-IC-HLS** is the latest in a series. The **TBM-IC- HLS** ion chambers are lighter. Stable, essentially drift- free electrometer technology.

DESCRIPTION:

The **TBM-IC-HLS** consists of a 3.7" dia x 6" long air ion chamber coupled to a stable solid state MOSFET input electrometer with built-in A to D converter to read out in two ranges directly in mR/hr or optional μ Sv/h Dose Rate.

- Integrated Dose reads in total R or optional total Sv.
- The Ion Chamber has 180 mg/cm² graphite lined methacrylate walls giving accurate "air equivalence".
- A thin (0.5 mg/cm²) Mylar window allows high sensitivity readings for Alpha and for low energy Beta such as C¹⁴.
- X-ray sensitivity is down to 2 KeV as well as higher energy Betas and Gammas.



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Divisions of



US NUCLEAR CORP

WIDE RANGE ION CHAMBER

Model ~ TBM-IC-HLS

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.
- Indicator Lamp:** **Green** LED 10 pulses/sec per mR/h. **Red** Over-range Indicator
- Range:**
- Rate 8 digit 0.1 mR/hr to 1.000 R/h in a two ranges. – Dose Rate
 - Integrate 8 digits 0.01 mR to 1,000 R. – Total 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.

Weight & Dimensions:

- Dimensions:** 6" x 4" x 12" including handle.
- Weight:** 28 oz. complete with batteries. 870 (grams)

Options:

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

***ANSI N42.33 Portable Radiation Detection Instrumentation for Homeland Security –
Type 2 – Hazard Assessment**



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