US NUCLEAR CORP

X-RAY COMPLIANCE TEST METER

Model # TBM-IC-XRAY w/Built-in Detector

FEATURES:

- X-RAY MACHINES, TV, and MONITORS
- LUGGAGE and PEOPLE SCANNERS
- ONE HAND OPERATION - Both Models
- DIGITAL READOUT: 6 digit-rate, 6 digits integrate
- SMALL LIGHTWEIGHT: 2-3 lbs
- SEES AXIALLY BELOW 15 KeV GAMMA OR X-RAYS
- FLAT RATE RESPONSE - AIR EQUIVALENT
- SCINTILLATOR - ION CHAMBER

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TBM-IC-XRAY

APPLICATION: Model TBM-IC-XRAY allow accurate compliance testing of a wide variety of X-Ray machines, TV's and computer monitors, luggage and people x-ray scanners. Protects the health and safety of airport and shipping personnel while they protect the public. The TBM-IC-XRAY are now smaller and lighter. Based on newest, more stable, essentially drift-free electrometer technology.

DESCRIPTION: The TBM-IC-XRAY consist of an air-equivalent probe 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 0.01 mR/h to 100.00 mR/h in one range. Dose range is 0.01 mR to 10 R.

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SPECIFICATIONS:

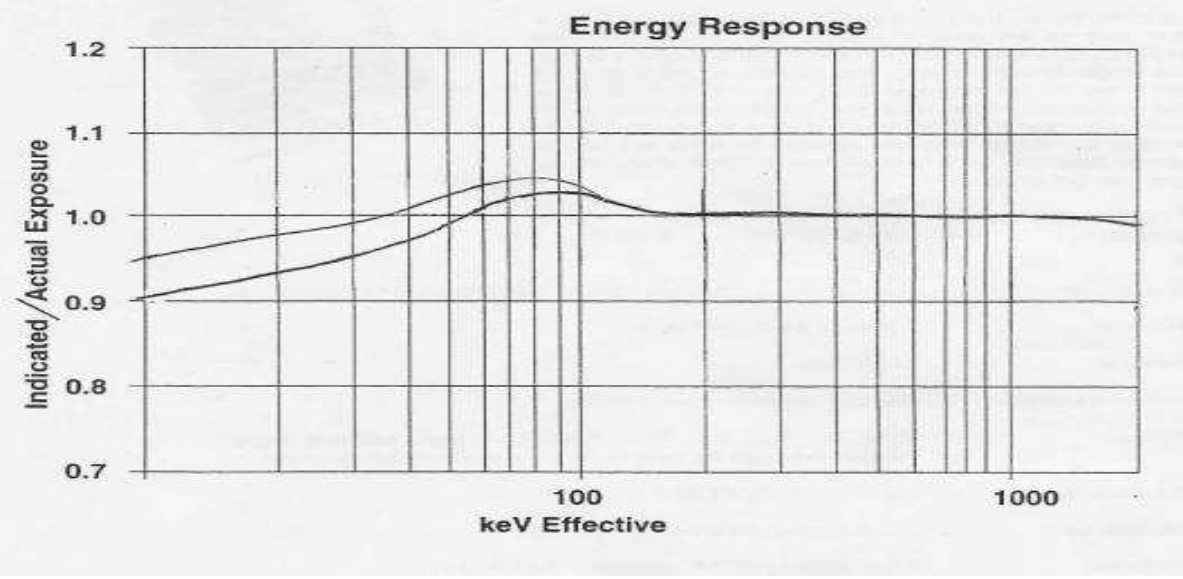
- **Detector:** Air equivalent ION CHAMBER.
- **Window:** Light-tight 0.9 mg/cm^2 Mylar laminate. 10 sq cm area. 36 mm (1.4") dia.
- **Readout:** LCD 8 digits
- **Indicator Light:** Green LED 10 pulses/min per mR/h.
  Red LED Over-range Indicator.
- **Range:**
  Rate 6 digits 0.01 mR/h to 100 mR/h in one range.
  Integrate 6 digits 0.01 mR to 9.9R.
- **Photon Energy Range:** 15 KeV - 500 KeV ± 20%
- **High Voltage:** Fully user adjustable (internal pot).
- **X-Ray Rep Rate:** Use either rate or integrate mode for pulses with repetition rate of less than 1.0 Sec.
  Use Integrate Mode for repetition rate less than 1.50 Sec.

SPECIFICATIONS (Continued):

- **Electrometer:** Solid State MOSFET input.
- **Electronics:** Adj H. V. Supply, Pulse Shaper. A-D converter LCD drivers. Test and display functions.
- **Pulse Duration and Content:** With sufficient repetitions, TBM-XR and TBM-EXR can accurately integrate pulses of less than a microsecond duration and longer and including continuous emission. Pulse content of 0.5 nanoR are measurable with sufficient repetition rate to give at least .01 mR/hr for at least 5 to 10 seconds.
- **Environment:**
  Temperature of Operation from -20° to 50° C
  Relative Humidity 0 - 95%
  Radio-frequency 10 mW/cm^2 up to 4 GHz affects meter viewing < ± 10%
  Magnetic 200 Gauss ± 5% effect
  Geotropism < ± 2% effect

- **Response Time:** 2-3 seconds for rate and for integrate.
- **Time to Zero:** If count-rate goes to zero, the digital display will hold the old count for 12 seconds before displaying "0.0."
- **Batteries:** Front panel battery test is provided.
  6 ea. (AA) NEDA 15A - over 100 hrs of operation.
- **Dimensions:**]
  5.5" x 3.5" (including handle)
- **Weight:** TBM-IC-XRAY complete with batteries and internal detector: 2.4 lbs.
- **Options:**
  Readout in Si units nGy and nGy/h.
  Ra-UBG - Check source.
  Other entrance window material or thickness.
  High voltage test button.
  5 cm nylon positioning bumpers.

SIGNAL WITHOUT SLEEVE



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A TECHNICAL ASSOCIATES

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