

ION CHAMBER TBM

Model # TBM-IC-PULSE

DIGITAL READOUT: 6 digit-rate, 8 digits integrate

DOSE RATE & TOTAL DOSE READ OUT

SMALL LIGHTWEIGHT 26 oz.

TBM PACKAGE

FLAT RESPONSE - SEALED AIR ION CHAMBER

SEES AXIALLY BELOW 5 KEV GAMMA OR X-RAY

SEES BETA, GAMMA, X-RAY, POSITRONS

FAST RESPONSE

WIDE RANGE



PULSED X-RAY RESPONSE

TBM-IC-PULSE will accurately measure the integrated Total Dose from pulsed x-ray machines over a wide range of pulse widths and repetition rates. This monitor also measures low energies and short pulses that other survey meters ignore to the detriment of worker health.

APPLICATION: Whenever a fast, sensitive ion chamber instrument is needed, the **TBM-IC-PULSE** is the latest in a series. These portable ion chambers are now smaller and lighter. Based on newest more stable, essentially drift-free electrometer technology. Especially useful in **Non-Destructive Testing** or other **Industrial or Medical** applications where **pulsed x-rays** are used.

DESCRIPTION: The **TBM-IC-PULSE** consists of a 2" dia air ion chamber coupled to a stable solid state MOSFET input electrometer with built in A to D converter to read out directly in mR/h or total mR. Rate range is 0.01 R/h to 100 R/h in a single range. Dose range is 0.001R - 100R in a single range. Other Ranges are also available.

TECHNICAL ASSOCIATES

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PULSED X-RAY RESPONSE

Total Dose:	8 digits 0.001R to 100R in a single range.
Pulse Width Range:	20nano-seconds to continuous emission
Repetition Rates:	single pulse to 1000/second
Wide Energy Range:	2KeV to 2.5Mev
High Dose Limits:	per customer specification*
User should inform TA	highest-expected, 10-second, total-dose exposure

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

SPECIFICATIONS continued

Detector: Sealed Air ion chamber 2" dia. Internal volume 50 cc

InsideWall: Plastic plus graphite lining

Cap: Removable protective cap.

Window: 1.7" dia. x 0.5 mg/cm² Kapton.

Readout: LCD 8 digits with **backlight**.

Count Lamp: Green Flashing LED

Over-range: Red LED Indicator

Range Rate: 6 digit 0.01 R/h to 100R/h in a single range.

Audio Alarm: User settable anywhere within TBM range

Electrometer: Solid State MOSFET input.

Electronics: A-D converter LCD drivers.

Batteries: NEDA 15A, 6 ea. (AA)– 200 hour life.

NEDA CR-1220 - 7 years life.

Dimensions: 5-1/2" x 3-1/2" x 8" including handle.

Weight: 2.9 lbs. complete with batteries.

Options:

Other Rate or Integrated Ranges

Other Readout Units such as Si units: Sv and Sv/h.

Chamber sleeves or Caps

X-Ray-SLV is X-Ray compliance sleeve with 10cm² aperture.