

HIGH ENERGY ACCELERATOR AREA MONITOR PLASMA CHAMBER®

Model – TBM-IC-ACC

FEATURES:

- BETA, GAMMA, X-RAY, POSITRONS, PROTONS
- MEETS AND EXCEEDS 100 R/h (other ranges available)
- DIGITAL READOUT: 6 digit-rate, DOSE RATE
- WALL MOUNT BRACKET
- FLAT RESPONSE - SEALED PLASMA CHAMBER®
- FAST RESPONSE
- ALARMS: AUDIO / VISUAL
- AC OPERATION / BATTERY BACK UP



AREA MONITOR FOR ACCELERATORS

**UNIQUE PLASMA CHAMBER® PROVIDES
MORE ACCURATE RESPONSE TO HIGH MeV
GAMMA / X-RAYS / PHOTONS / PARTICLES.**

APPLICATION:

Use in Accelerator & Linac facilities for high energy density from High MeV Gammas and from Nano Second Pulsed X-Rays / Photons.

**PHOTON PLASMA DETECTOR FOR MEDICAL, INDUSTRIAL, & GOVERNMENT ACCELERATORS
WITH X-RAYS OR GAMMAS OVER 2 MeV ENERGY.**

WHY IS THIS CAPABILITY NEEDED?

- The nanosecond pulsed X-Rays & the 2 MeV and higher X-Rays and Gammas have so much energy that they create a small volume of dense plasma inside the ion chamber. The plasma quickly collapses and disappears & the energy turns into minor heat and turbulence.
- The TBM-IC-ACC is able to accurately collect and display the amount of energy in the plasma before it collapses. Other brands and models do not.

RESPONSE:

TBM-IC-ACC is the **ONLY** accelerator plasma chamber® that will detect nanosecond pulsed X-Rays. It will accurately measure the integrated Total Dose from pulsed X-Ray machines over a wide range of pulse widths & repetition rates.



**TECHNICAL ASSOCIATES
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Divisions of



US NUCLEAR CORP

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Model – TBM-IC-ACC

DESCRIPTION:

The **TBM-IC-ACC** consists of a plasma chamber coupled to a Digital display that reads out directly in mR/h or total mR.

SPECIFICATIONS:

PULSED X-RAY RESPONSE

Total Dose:	1 mR to 100 R in a single range (8 digits)
Dose Rate Range:	1 mR/hr to 10,000 mR/hr (6 digits) or 10 mR/h to 100,000 mR/h
Pulse Width Range:	20 nano-seconds to continuous emission
Repetition Rates:	Single pulse to 1000/second
Wide Energy Range:	2 KeV to 10 MeV
High Dose Limits:	Per customer specification*

User should inform TA of highest-expected: 10-second, total-dose exposure

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

Detector:	Sealed Plasma chamber
Cap:	Removable protective cap
Window:	0.5 mg/cm ² Kapton.
Readout:	LCD 8 digits with capacity backlight
Count Lamp:	Green Flashing LED
Over-Range:	Red LED Indicator
Audio Alarm:	User settable anywhere within TBM range
Battery Back Up:	NEDA 15A, 6 ea. (AA)– 200 hour life with typical use.
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.



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