

HIGH ENERGY ACCELERATOR AREA MONITOR

PLASMA CHAMBER® 高能加速器区域监测器 等离子室

Model – TBM-IC-ACC

FEATURES:特点

- BETA, GAMMA, X-RAY, POSITRONS, PROTONS
β, γ, x射线, 正电子, 质子
- MEETS AND EXCEEDS 100 R/h (other ranges available)
可测到100 R/h (可选其它量程)
- DIGITAL READOUT: 6 digit- DOSE RATE
数字读出器: 6位数-计数率
- WALL MOUNT BRACKET
壁装支架
- FLAT RESPONSE - SEALED PLASMA CHAMBER®
平坦响应-密封等离子室
- FAST RESPONSE
快速响应
- ALARMS: AUDIO / VISUAL
视/听报警
- AC OPERATION / BATTERY BACK UP
AC电源/备用电池



AREA MONITOR FOR ACCELERATORS

加速器区域监测器

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

特殊等离子室使其对高能伽马/x 射线/光子/粒子响
应更精确

APPLICATION: 应用

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

用于加速器&LINAC电子直线加速器检测来自高能伽马和纳秒脉冲x-射线/光子的高能密度。



**TECHNICAL ASSOCIATES
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Divisions of



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

光子等离子探测器用于医疗，工业，政府，加速器，测量 x 射线或高于 2MeV 的伽马。

WHY IS THIS CAPABILITY NEEDED?

为什么需要？

- 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.

纳秒脉冲 x 射线 & 2MeV 及以上的 x 射线和伽马能量大的足以在电离室内形成少量离子，离子快速散开并消失，能量变为热和离子流

- 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.

TBM-IC-ACC 能够在离子消散之前精确收集并显示离子中的能量，而其它品牌和型号却做不到。

RESPONSE: 响应

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.

TBM-IC-ACC是唯一一台能够探测纳秒脉冲x射线的加速器等离子室，其能够精确测量x光机的总剂量，宽脉冲宽度和高重复率。

DESCRIPTION: 描述

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

TBM-IC-ACC由等离子室结合数字显示组成，直接读出剂量率mR/h或总剂量mR

SPECIFICATIONS: 参数

PULSED X-RAY RESPONSE

Total Dose:	1 mR to 100 R in a single range (8 digits)
总剂量:	单量程（8位数）1 mR -100 R
Dose Rate Range:	1 mR/hr to 10,000 mR/hr (6 digits) or 10 mR/h to 100,000 mR/h
剂量率量程:	6位数1 mR/hr -10,000 mR/hr或10 mR/h to 100,000 mR/h
Pulse Width Range:	20 nano-seconds to continuous emission
脉宽范围:	20纳秒到连续发射



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Repetition Rates: Single pulse to 1000/second

重复率: 单个脉冲到1000/秒

Wide Energy Range: 2 KeV to 10 MeV

能量范围:

High Dose Limits: Per customer specification*

剂量上限: 按客户要求

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

用户应告之TA公司其期望的上限: 10秒, 总剂量

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

注: TA公司也生产可测量到 10^6 R/hr 的TBM电离室

Detector: Sealed Plasma chamber

探测器: 密封等离子室

Cap: Removable protective cap

盖子: 可拆卸保护盖

Window: 0.5 mg/cm² Kapton.

窗:

Readout: LCD 8 digits with capacity backlight

显示: 8位数带背光的LCD显示

Count Lamp: Green Flashing LED

计数指示灯: 闪烁绿色LED

Over-Range: Red LED Indicator

过量程: 红色LED指示灯

Audio Alarm: User settable anywhere within TBM range

声音报警: 可量程内用户设定

Battery Back Up: NEDA 15A, 6 ea. (AA)– 200 hour life with typical use.

备用电池: 镍镉电池6节15A-典型200小时

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

尺寸: 包括把手5-1/2" x 3-1/2" x 8"

Weight: 2.9 lbs. complete with batteries.



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重量: 带电池2.9磅

Options: 可选

Other Rate or Integrated Ranges

其它剂量率或总计数量程

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

其它读出单位如国际单位: Sv 和 Sv/h.



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