

WIDE RANGE ION CHAMBER

宽量程电离室

TBM-IC-HLS

FEATURES:

特点

- SEES X-Ray PULSE DOWN TO 0.002 μ R

可见低到0.002 μ R X-Ray脉冲

- 1pSv to 10 mSv

1pSv -10 mSv

- WIDE RANGE: 0.1 mR/hr to 1,000 R/hr- RATE

宽量程：0.1 mR/hr - 1,000 R/hr- 计数率

- DIGITAL READOUT: 8 digit-rate, 8 digits integrate

数字读数：8位数率，8位数整合

- DOSE RATE & TOTAL DOSE READ OUT

剂量率&总剂量读数

- LIGHTWEIGHT 28 oz. (870 grams)

轻量28盎司

- TBM PACKAGE

TBM组件

- FLAT RESPONSE - FREE AIR ION CHAMBER

平坦响应-密封电离室

- SEES BELOW 2 KEV GAMMA OR X-RAY

可见2KEV γ 或X-ray

- SEES ALPHA, BETA, GAMMA, X-RAY

可见 $\alpha\beta\gamma$, x-ray

- CORRECT RANGE for ANSI N42.33 *

满足ANSI N42.33量程要求



TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY

7051 Eton Ave., Canoga Park, CA 91303
818-883-7043 (Phone) 818-883-6103 (Fax)

tagold@nwc.net

WWW.TECH-ASSOCIATES.COM

Divisions of



US NUCLEAR CORP

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TBM-IC-HLS

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 now lighter. Based on newest more stable, essentially drift-free electrometer technology.

应用：当需要一款快速灵敏电离室仪器时，TBM-IC-HLS为系列中最新款。基于最新更稳定基本无漂移静电计技术，TBM-IC-HLS电离室现在更轻量。

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 $\mu\text{Sv/h}$ Dose Rate. Integrated Dose reads in total R or optional total Sv. Ion Chamber with 180 mg/cm² graphite lined methacrylate walls gives accurate "air equivalence". Thin (0.5 mg/cm²) Mylar window allows high sensitivity readings for alpha and for low energy beta such as C14 in addition X-rays down to 2 KeV as well as higher energy Betas and Gammas.

描述：TBM-IC-HLS包含一个直径3.7" x 6"长电离室耦合到一个稳定的固态MOSFET输入静电计中，带内置A到D转换器以直接读出mR/hr或选择 $\mu\text{Sv/h}$ 剂量率。整合剂量读出单位总R或选择总Sv，电离室带180 mg/cm²厚度石墨里衬的甲基丙烯酸酯壁，给出精确空气当量，薄（0.5 mg/cm²）迈拉窗允许高灵敏度读出 α 和低能 β 如C14，此外X-ray低到2 KeV，也可读出较高能量 β 和 γ

SPECIFICATIONS:

规格：

•Detector: Free Air ion chamber 3.7" dia x 6" long. Internal volume almost one liter

探头：密封电离室直径3.7" x 6" 长，内容积将近一升

•Wall & Cap: Methacrylate, graphite lined 180 mg/cm² walls and 540 mg/cm² cap.

壁&帽：甲基丙烯酸酯，厚度180 mg/cm²石墨衬里，厚度540 mg/cm²帽

•Window: 3.0" dia. x 0.5 mg/cm² Mylar.

窗：直径3.0" x 0.5 mg/cm² 迈拉窗

•Readout: LCD 8 digits.

读数：LCD8位数

•Indicator Lamp: Green LED 10 pulses/sec per mR/h. Red Over-range Indicator

指示器灯：绿色LED，每mR/h 10 pulses/sec计数单位；红色过量程指示

•Range:

量程

Rate 8 digit 0.1 mR/hr to 1.000 R/h in a two ranges. – Dose Rate

数率8位数，0.1 mR/hr - 1.000 R/h，两量程-剂量率

Integrate 8 digits 0.01 mR to 1,000 R. – Total Dose

整合8位数0.01 mR - 1,000 R.-总剂量率

•Electrometer: Solid State MOSFET input.

静电计：固态MOSFET输入

•Electronics: A-D converter LCD drivers.

电子学：A-D转换器，LCD驱动



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•Batteries:

电池

1 set of CR-1220 Lithium lasts for the shelf life 7 years.

一套CR-1220锂电，保质期7年

6 ea. (AA) - 1000hr.

6节(AA)-1000小时

•Dimensions: 6" x 4" x 12" including handle.

尺寸：6" x 4" x 12"包括把手

•Weight: 28 oz. complete with batteries. 870 (grams)

重量：28盎司，带电池870克

•Options:

选购

Readout in SI units: Sv and Sv/h.

读出国际单位：Sv 和 Sv/h.

• Thicker chamber wall to 1g/cm²

较厚室壁到1g/cm²

• Thin Cap same thickness as chamber side wall (180 mg/cm²).

薄帽，和室侧壁厚度一样(180 mg/cm²).

• Closed chamber (no mylar window).

封闭室（无迈拉窗）

• Alarm light on Mr/Hr- Rate Mode

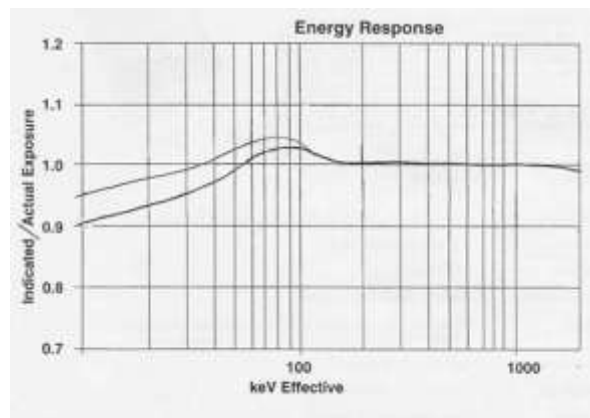
报警灯Mr/Hr-率模式

• RS-232 Serial Output

RS-232串口输出

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

国土资源部使用ANSI N42.33便携式辐射探测仪器-2型-危害评估



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