

RUGGED ION CHAMBER TBM

Model # TBM-IC-MVR and TBM-IC-LE

FEATURES:特点

- DIGITAL READOUT: 6 digit-rate, 8 digits integrate
数字读数: 6位数率, 8位数整合
- DOSE RATE & TOTAL DOSE READ OUT
剂量率&总剂量读数
- SMALL LIGHTWEIGHT UNDER 3 LBS.
小巧轻量低于3磅
- NO RANGE SWITCHING
无量程转换
- FLAT RESPONSE - SEALED ION CHAMBER
扁平响应-密封电离室
- SEES AXIALLY BELOW 5 KEV GAMMA OR X-RAY
见同轴低于5KEV γ 或X
- SEES BETA, GAMMA, X-RAY
可见 β - γ - X
- RADIAL (SIDEVIEW) DETECTION
DOWN TO 20KeV (TBM-IC-LE)
(侧视图) 探测辐射低到20KeV(TBM-
IC-LE)
- FAST RESPONSE
快速响应
- WIDE RANGE: 0.1 mR/hr to 50,000 mR/hr
宽量程: 0.1 mR/hr - 50,000 mR/hr



CE



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TECHNICAL ASSOCIATES

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Model # TBM-IC-MVR and TBM-IC-LE

APPLICATION: Whenever a fast, sensitive ion chamber instrument is needed, the **TBM-IC-MVR/LE** are the latest in a series. These sealed ion chambers are now smaller, lighter and more rugged. Based on newest more stable, essentially drift-free electrometer technology.

应用：只要需要一款快速灵敏电离室仪器，选择系列里最新款**TBM-IC-MVR/LE**。基于最新更稳定无漂移静电计科技，此电离室现在更小更轻更结实。

DESCRIPTION: The **TBM-IC- MVR/LE** consist of a 3" dia x 5" long sealed 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 mR*. Rate range is 0.1 mR/h to 50,000mR/h in a single range. Dose range is 0.001mR - 10R in a single range. The sealed ION Chamber obviates the need to make temperature and pressure corrections and eliminates the need for dessicant change. While still giving sideview sensitivity down below 20 KeV and end-on below 5 KeV. Thin (0.5 mg/cm²) Kapton window allows high sensitivity readings for low energy beta such as Tc-99 in addition to other Betas, Gammas and X-rays.

描述：**TBM-IC- MVR/LE** 配备直径 3" x 长 5"密封电离室，耦合到一个稳定固态 MOSFET 输入静电计，带内置 A-D 转换器直接读出 mR/h 或 mR。单量程中，率量程从 0.1 mR/h-50,000mR/h，单量程中，剂量率 0.001mR - 10R，此密封电离室无需使用温度和压力校准，无需干燥剂更换，仍给出侧面灵敏度低到 20 KeV，前端测量低于 5 KeV，薄窗（0.5 mg/cm²）除其它 β γ 和 X 外，还允许低能 β 灵敏度读数，如 Tc-99

* μ Sv/h and μ Sv dose is optional.

μ Sv/h 和 μ Sv 剂量可选购

SPECIFICATIONS:

规格

•**Detector:** Sealed Air ion chamber 3" dia x 5" long. Internal volume 450 cc

探头：密封电离室直径3" x 长5"，内容积450 cc

•**Wall & Cap:** Aluminum wall, plastic plus graphite lined and 540 mg/cm² cap. Optional 1g/cm² walls.

壁与盖子：铝壁，塑料加石墨衬，盖子厚度540 mg/cm²，可选购1g/cm²

•**Window:** 2.0" dia. x 0.5 mg/cm² Kapton.

窗：直径2.0" dia. x 0.5 mg/cm² Kapton

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

读数：8位数LCD，带背景灯

•**Indicator Lamp:** Green LED 10 pulses/sec per mR/h

Red Over-range Indicator

指示器灯：绿色LED每mR/h计数10 pulses/sec

•**Range:**

量程

Rate 8 digit 0.1 mR/h to 50,000 mR/h in a single range.

速率8位数单量程0.1 mR/h - 50,000 mR/h

Integrate 8 digits 0.001 mR to 10R in a single range.

整合8位数单量程0.001 mR - 10R

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•**Audio Alarm:** User settable anywhere within TBM range

声音报警：在TBM范围内用户设定

•**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

•**Batteries:** 电池

22 ea. (Button) NEDA CR-1220 - 7 years life.

22节（纽扣）NEDA CR-1220 – 7年

6 ea. (AA) NEDA 15A – 200 hour life.

6节（AA）NEDA15A – 200小时寿命

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

尺寸：5-1/2" x 3-1/2" x 8"包括把手

•**Weight:** 2.9 lbs. complete with batteries.

重量：2.9 lbs，带电池

•**Options:** Readout in SI units: Sv and Sv/h.

选项：读出国际单位：Sv 和 Sv/h.

•**Optional Chamber sleeves**

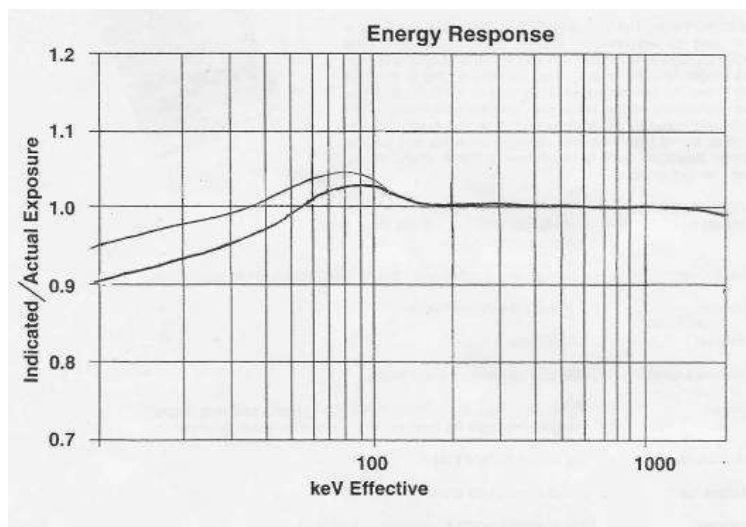
可选电离室套管

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

X-Ray-SLV带符合套管，10cm²口径

•**Deep dose gamma sleeve.**

高穿透力伽马套管



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PORTABLE ION CHAMBER MODELS AVAILABLE 供应便携式电离室

Model # 型号	Range 量程	Decades 数量级	Chamber Volume 电离室容积	Variation From MV 与基本型号 MV 不同之处
TBM-IC-MARK V	0.1-10,000mR/h	5	300cc	Utilizes essentially drift-free electrometer technology 应用根本上无漂移静电技术
TBM-IC-MV-R	0.1-50,000mR/h	5.5	450 cc	Rugged aluminum chamber. Up to. 耐用铝室, 达 50R/h
TBM-IC-AJI	0.1-10,000mR/h	5	800cc	More stable below 2mR/h. 2mR/h 以下更稳定
TBM-IC-LR	0.01-1,000mR/h	5	2,000cc	Sees 10 times lower, 2 liter chamber 可见低于 10 倍灵敏度, 2 升电离室
TBM-IC-HLS	0.1mr/h-1,000R/h	7	300cc	Plus second range to 1,000 R/h. 加
TBM-IC-BW	1µR/h-10R/h	5	300cc	Built in HP ipac, auto ranging, built-in data logger. 内置 HP ipac 自动选择读数单位 内置数据录入器
TBM-IC-XRAY	0.1-10,000mR/h	5	300cc	Includes 10cm ² aperture sleeve. 包括口径 10cm ² 紧固套
CP-MU-D1	0.1-1,000R/h	4	1cc	60 foot cable, up to 10 ⁶ R/h.
CP-MU-D1000	0.1-1,000KR/h	4	1,000cc	60 英尺缆线, 达 10 ⁶ R/h. 60 foot cable, up to 10 ³ R/h
CP-MU-D1/ D1000v	0.1-1,000,000R/h	7	1 & 1,000cc	60 英尺缆线, 达 10 ³ R/h. System includes one electronics and two chambers. 系统包括一套电子学和两个电离室
TBM-IC-RN	10 picoCi/l to 1 µCi/l	5	300cc	Calibrated to measure radon gas concentration 校准测量氡气体浓度

Model

型号

TBM-IC-MARK V

TBM-IC-MV-R

TBM-IC-AJI

TBM-IC-LR

TBM-IC-HLS

TBM-IC-BW

TBM-IC-XRAY

CP-MU-D1

CP-MU-D1000

CP-MU-D1/D1000

TBM-IC-RN

Special Notes

注释

Most popular model. Fits in a brief case. Great stability.

最受欢迎型号, 可装进手提箱, 稳定性出色

Rugged for use in power plants, industry, and military.

耐用, 用于核电站, 工业和军事

Best-in-Field for all medical users.

医疗用户最佳选择

Detects background levels in 10sec.

10秒钟检测本底

This very wide range conforms to ANSI N42.33 Homeland Security type 2

宽量程适用于ANSI N42.33国土安全2型

Down to 0.01mR/h

低到 0.01mR/h

Complies with FDA regulation 21 CFR1020.40.

符合FDA规定21 CFR1020.40.

Allows for underwater monitoring to 1 million R/h.

允许水下监测到1 m R/h.

Water-proof design allows for monitoring in both reactor and spent fuel pools.

防水设计允许监测反应堆和乏燃料棒

Unplug one detector and plug in the other to switch ranges.

插入式探头可转换量程

Can detect Radon to public release levels in less than 10 minutes.

不到10分钟可检测到氡公共排放标准



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