

RAD Safety Water Monitor

辐射安全水监测器

Model # MEDA-SP

FEATURES: 特点

- TWO SEPARATE DETECTORS
- 两个独立探头
- SUBMERSIBLE GAMMA DETECTOR
- 水下伽马探头
- ENHANCED RESPONSE FOR RADIATION FROM 5 KeV TO 250 KeV (optional BGO)
- 从 5 KeV 到 250 KeV 辐射反应增强
- PANCAKE GEIGER OPERATION INTERNAL
- 内置扁平盖革管计数
- LIGHTWEIGHT - FITS IN YOUR BRIEFCASE
- 轻量-可以装进公文包里



MEDA-SP

APPLICATION: 应用

- Roadside Chemical Spill 路边化学品泄漏
- Industrial Accident 工业事故
- Terrorist Water Poisoning 恐怖分子水投毒
- Dumping of Medical/Industrial Waste 医药/工业废物倾倒

SITE LOCATION: 使用地点

- Use MEDA-SP Anywhere 任何地方均可使用 MEDA-SP

MEASUREMENT CAPABILITIES:

测量能力

- Gamma emitters, submersible sensor probes for reservoir, stream or sump.
- 伽马发射体，水下 传感探头用于水库，溪流或污水坑
- Alpha and beta emitters in water samples
- 水样品中 α 和 β 发射体
- Quick determination of water contamination
- 快速确定水污染物
- Easy detection of surface contamination-alpha, beta, gamma;
- 容易探测表面污染- α , β , γ



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hands, boots, clothing and equipment

手, 靴子, 衣物和设备

- Identify personnel needing decontamination
- 识别需要去污的人员
- Search out stored radioactive materials or dirty bombs using gamma probe
- 用伽马探头搜索储藏的辐射物或脏弹

DESCRIPTION OF USE

使用说明

1. Arrive at location of accident or attack
到达事故现场
 - Throw gamma sensor into reservoir, stream or sump.
 - 将伽马探头扔进水库、溪流或污水坑
 - Increasing count rate indicates contamination by gamma emitters.
 - 上升的计数率表明伽马发射体污染
2. Use PAN-AL (disposable planchet)
使用 PAN-AL (一次性圆片)
 - Place sample of suspect water in evaporator (EVP) for one minute
 - 将水样放进蒸发器一分钟
 - Place sample under built-in pancake detector on bottom of ratemeter
 - 将样品放在内置率表底部扁平探头下面
 - Increased count rate indicates contamination with alpha or beta emitters
 - 增加的计数率表明 α β 发射体的污染情况

To Separate Alphas, Betas, and Gammas

分开 α β 和 γ

1. Built-in sliding beta filter is standard
标准内置推拉贝塔滤波器
2. Alpha filter is optional
 α 滤波器可选购
3. If count rate exceeds 2 times background, water is not safe.
如果计数率超过本底两倍, 水不安全
4. Use built-in pancake GM detector on bottom of ratemeter to check people, clothing and objects for surface contamination.
使用计数器末端带内置 GM 管探头检测人员衣物和物体的表面污染



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5. If count rate exceeds 2 times background, the person should take off the contaminated clothing. If count rate continues to exceed 2 times the background, hose them down and measure again.
如果计数率超过本底两倍，此人应该脱下污染衣物。如果继续超过本底两倍，用水冲洗再测量
6. Gamma probe count rate will increase as you approach a cache of radioactive materials. Knowing this you can search a car or check-out suspicious objects.
当你接近辐射物伽马探头计数将增加，了解这一点，你就可以搜查车辆或检查可疑物件了

DESCRIPTION: The MEDA-SP RATEMETER features an internally mounted 2 inch pancake GM detector with window looking downward from bottom of case and an external crystal scintillation probe for detection of low energy gammas. A sliding shield protects pancake detector when not in use. This system is half the weight of other systems.

描述: MEDA-SP 计量表带内置 2 英寸扁平 GM 探头，有窗，从箱底可视，一个外置晶体探头用于探测低能伽马。一个推拉屏保护使用中的扁平探头。此系统只是其它系统重量一半。

SPECIFICATIONS:

规格

- **Meter:** Rugged, recessed 2-1/2" meter.
- 率表: 耐用, 内凹 2-1/2"率表
- **Ranges:** 4 linear for each detector: 0-500; 5,000; 50,000; 500,000 cpm for external and 0-0.15; 1.5; 15; 150 mR/hr. for internal detector. Other scales and overlays available: Sieverts, etc.
- 量程: 每个探头 4 个线性: 0-500; 5,000; 50,000; 500,000 cpm 外部探头, 0-0.15; 1.5; 15; 150 mR/hr.用于内部探头。其它测量和套尺提供: 希沃特等。
- **Range Switch Positions:** Off; Battery Test; X1; X10; X100; X1,000.
- 量程开关位置: 关, 电池测试, X1; X10; X100; X1,000.
- **Detector Switch (Toggle):** Internal (pancake), External (scintillator) PGS-3SUB
- 探头开关: 内置(扁平管), 外部(闪烁体) PGS-3SUB
- **Time Constant Switch:** Fast, Slow (approx. 2 & 11 sec.)
- 时间常数开关: 快, 慢(接近 2 & 11 秒)
- **Detectors:** 2" O.D. Pancake Geiger for internal Alpha/beta, submersible, high sensitivity gamma scintillation probe 1"x1". Nal (TI) crystal standard. 2"x2" crystal optional.
- 探头: 外径 2", 扁平盖革管用于内部 α/β , 浸水型高灵敏伽马闪烁体探头 1"x1". Nal (TI) 标准晶体, 可选购 2"x2"晶体



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- **Efficiency:]**
效率
- **OPTIONS:**
选购
- **EVAP-SP:** Sample evaporator with vehicle adaptor or battery.
EVAP-SP: 样品蒸发器带车辆适配器或电池
- **PAN-AL:** Disposable aluminum planchets for sample evaporation.
PAN-AL: 一次性铝圆片用于样品蒸发
- **PAN-SP:** Re-usable planchets.
PAN-SP: 可重复使用圆片
- **PGS-3LSUB:** 2"x2" crystal probe
PGS-3LSUB: 2"x2" 晶体探头
- **STB-3:** Shielded pancake tube detector for enhanced alpha beta sensitivity
STB-3: 带屏蔽扁平管探头用于提高 α β 灵敏度
- **Calibration:** Single master Cal Pot for each detector, plus individual Cal Pot for each scale. Pots adjust from outside case.

校准: 每个探头带独立的主校准电位计, 外加每个量程单独校准电位计, 电位计外箱调整。

- **Power:** 9V Transistor battery (Eveready E1220 or equivalent). Battery life - 100 hrs. norm. operation.
电源: 9V 晶体管电池, 永备 E1220 或当量, 寿命正常操作 100 小时
- **Dimensions:** 3" (7.6cm) wide x 5-1/4" (13.3cm) long x 2-1/4" (6cm) deep.
尺寸: 3" (7.6cm) 宽 x 5-1/4" (13.3cm) 长 x 2-1/4" (6cm) 深.
- **Total Weight:** 2.5 lbs. (including probe and battery)
总重量: 2.5 磅 (包括探头和电池)
- **Shipping Weight:** 4.4 lbs.
装运重量 4.4 磅



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