

PORTABLE VEHICLE TRANSIT MONITOR

便携式车辆运输监测器

Model # PVM-TA

Model # PVM-TB

Model # PVM-L/O

FEATURES: 特点

- COMPLETELY PORTABLE
- 完全便携



- OPERATES ON RECHARGEABLE BATTERIES or AC
- 可充电电池或 AC 线电源
- CAN ALARM AT 7μ R/hr RISE WITHIN 1 SECOND (TA)
- 1 秒钟上升 7μ R/hr 时可报警 (TA)
- SEES AND CAN ALARM AT 1μ R/hr ABOVE BACKGROUND (TB)
- 可见高于本底 1μ R/hr 并报警 (TB)
- COMPLETELY WEATHER PROOF
- 完全防风雨
- HIGH SENSITIVITY DETECTORS (PLASTIC SCINTILLATORS 792 in^3 EACH)
- 高灵敏探头 (塑料闪烁体每个 792 in^3)
- DYNAMIC BACKGROUND SUBTRACT
- 本底扣除
- FAST RATE OF CHANGE DESIGN
- 快速改变设计
- CONTINUOUS OPERATION: "SET AND FORGET"
- 连续操作, "一劳永逸"





DESCRIPTION: Portable control / alarm module plus two portable weather proof detectors each with Plastic Scintillators 792 in³/detector. Rate of change electronics with audio and visual alarms. Operates on built-in rechargeable batteries or 110/220 AC. Operation for rugged outdoor use as well as indoors. Model **PVM-TA** is a high sensitivity Gamma Monitoring system for determining possible radiation contamination in containers or vehicles on a non-pause basis. Since the operation of this instrument is based on rate of change in radiation, it will reliably pick up contamination as it passes near the monitor. Model **PVM-TB** achieves greater sensitivity by stop and count approach. This system can be set-up at the **road side** or in a **parking lot**. It can be mounted to a fence post or at a **loading dock** or at a **roadway station**. Background is continually updated and subtracted thus giving net vehicle reading.

描述：便携控制/报警模块，加两个便携防潮外罩。每个包含两个塑料闪烁体 792 in³ /探测器，带视听报警的变频电子学。内置可充电电池或 110/220 交流电供电，供室内及室外恶劣环境使用。型号 PVM-TA 是一款高灵敏γ监测系统用于监测人员，集装箱或其它车辆通过时可能存在的辐射污染物。由于此仪器操作原理基于辐射率变化，所以只要污染物靠近监测器，就能可靠地被检测到。如果人员及车辆停靠并计数，型号 PVM-TB 灵敏度更高。此系统可安装到路边或停车场，也可以安装到围栏柱或立在室内外。本底持续更新并扣除以便给出净读数

SPECIFICATIONS:

规格

- **Detectors:** 2 ea. 12" x 1.5" x 44" premium Plastic Scintillators.
Area: 792 in³ per detector.*
- **探头：**两个面积为 12" x 1.5" x 44"优质塑料闪烁体，每个探头探测面积 792 in³
- **Range:** 1 μR/hr to 1 mR/hr.
- **量程：**1 μR/hr - 1 mR/hr.
- **Power Requirements:** Operates on a built in rechargeable batteries or 110/220 AC.
- **电源要求：**内置可充电电池或 110/220 AC.
- **Power Recharge Cable:** 6 ft. cable furnished. Three Prong grounded connector.
- **电源充电线：**6ft 护套线，三孔带接地线连接器。
- **High Level Alarm:** Flashing red light and intermittent 2900 Hz tone. (90 dB)



- 高限报警：闪烁红灯和 2900Hz 间歇音
- **Alarm Set:**
- 报警设定：
 - **PVM-TA** internal factory set at .007 mR/hr rise per second. May be reset by user.
 - PVM-TA 工厂设定每秒上升.007 mR/hr，用户可以设定。
 - **PVM-TB** internal factory set at 10% above ambient background. May be reset by user.
 - PVM-TB 工厂设定本底以上 10% 报警，可用户设定
 - **PVM-L/O** internal factory set at 2 Times Background - user settable 0 to 150% full scale.
 - PVM-L/O 工厂设定本底两倍报警，用户可设定 0-150% 满量程
- **Cases:** Weather-tight NEMA rated tough, durable, lightweight. A "tongue-in-groove" continuous "O"-ring system makes the case water, moisture, and dust tight. Plus a low profile pressure release valve.
- **外箱：**防雨 NEMA 标准耐用结实轻量，带凹槽 O 型环设计使得外箱防水，防潮，防尘。外加低矮的压力释放阀。
- **Alarm Indicators:** Ready - OK- High Alarm.
- **报警指示：**准备-OK-高报警
- **Count Time:** 1 to 20 seconds (**PVM-TB** only).
- **计数时间：**1-20 秒 (仅限 PVM-TB)
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- **Energy Range:** 能量范围
 - Gamma: 40 KeV to 6 MeV.
 - γ : 40 KeV - 6 MeV.
 - Beta: above 1 MeV, includes P^{32} , $Sr^{90}Y^{90}$, & N^{16} .
 - β : 1MeV 以上，包括 P^{32} , $Sr^{90}Y^{90}$, & N^{16}
- **Communications:** Built-in serial port and Ethernet Node.
- **通信：**内置串口和以太网
- **Dimensions:**
- 尺寸：
 - Control Box: 16" x 20" x 10" plus alarm Beacon.
 - 控制箱：16" x 20" x 10"加报警灯
 - Detectors 54" H x 15.5" W x 7" D.
- **Shipping Weight:** 240 lbs. (for 2 detector units.)
- **装运重量：**240 磅 (双探测器)
- **Carrying Weight:**
- 搬运重量
 - Control Box: 18 lbs.
 - 控制箱：18 磅
 - Each Detector: 95 lbs. (Wheels & Handles are Built-in.)
 - 每个探测器：95 磅 (内置轮子和把手)



OPTIONAL ACCESSORIES:

选购组件

- **Check Source:** RAU-BGX, uranium source; license exempt.
- **检测源 :** RAU-BGX , 铀源 , 免执照
- **Additional Relay:** 5A SPDT to operate other circuits.
- **附加继电器 :** 5A SPDT 用于其它电路
- **Additional Remote Alarm:** RAL-3W flasher, siren.
- **附加远程报警 :** RAL-3W 闪灯 , 报警器
- ***Options:** 选项
 - 220 V, 50-60 Hz.
 - 7-day Battery Back-up.
- **7 天备用电池**
 - Additional detectors.
- **附加探头**
 - Alternate detectors other size plastic scintillators, NaI(Tl) Scintillators, or BGO crystal. Specific detectors eg for plutonium or Neutron emitters or Beta emitters.
- **其它尺寸塑料闪烁探头 , NaI(Tl)闪烁体或 BGO 晶体 , 钷或中子或β发射物专用探头。**
 - Photo cell vehicle sensors(s) to initiate count or to measure vehicle speed.
 - Wire-less operation.
- **感光车辆传感器用于计数或测量车辆速度**

PORTABILITY:

便携

- Battery Operation.
- 电池供电
- Each element is housed in weather proof high impact plastic case with sturdy carrying handles.
- 每个组件封装在防风雨塑料外箱中 , 带结实把手
- Detectors are shipped with built in deployment stand (Model DS-4).
- 探测器配有内置可调节底座 (型号 DS-4)
- Detectors have Built in wheels plus industrial grade, easy to use, reusable straps.
- 探测器带内置轮子加工业级方便重复用的捆绑带





PVM-L/O uses the same detectors as the other PVM models, but has simplified LAM-10L "Alarming Ratemeter" electronics, Instead of "Rate of Change" electronics.

PVM-L/O 和其它 PVM 型号使用同样探头，但是其简化了的 LAM-10L“报警器”电子学替换了“变频”电子学。

Available as a Fixed Unit (Model# **VMF-TA**) in a Metal Housing.

作为固定组件 (型号 VMF-TA) 封装在金属箱中，有供货。



TECHNICAL ASSOCIATES - ALL RADIATION 7051 Eton Ave. Canoga Park, CA 91303 Tel: (818)883-7043
OVERHOFF TECHNOLOGY CORP. - TRITIUM 1160 US Route 50 Milford OH 45150 Tel: (513)248-2400

Radiation Detection & Measurement For 60 Years