

# INSTALLED VEHICLE TRANSIT MONITOR

Model # VMF-TA

Model # VMF-TB

Model # VMF-TA4

## FEATURES:

- OPERATES ON AC OR OPTIONAL BATTERY ``BACK-UP``
- CAN ALARM AT 7  $\mu$  R/hr RISE WITHIN 1 SECOND (TA)
- SEES AND CAN ALARM AT 1  $\mu$  R/hr ABOVE BACKGROUND (TB)
- COMPLETELY WEATHER PROOF METAL HOUSING
- HIGH SENSITIVITY DETECTORS (PLASTIC SCINTILLATORS 792 in<sup>3</sup> EACH)
- DYNAMIC BACKGROUND SUBTRACT
- FAST RATE OF CHANGE DESIGN
- CONTINUOUS OPERATION: ``SET AND FORGET``



VMF-TA4

**DESCRIPTION:** The electronic control/alarm console plus two rugged weather proof detectors each with Plastic Scintillators 792 in<sup>3</sup> detector. Rate of change electronics with audio and visual alarms. Operates from 110/220 AC power main; optional battery back-up is available. Operation for rugged outdoor use as well as indoors. Model VMF-TA and VMF-TA4 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 VMF-TB achieves greater sensitivity by stop and count approach. This system can be installed at entrance and/or exit gates, at weight stations or check points, or anywhere that cars, trucks, rail cars or pedestrians will pass by; preferably at reduced speeds for more accurate readings. Background is continually updated and subtracted thus giving net vehicle reading.



OPTIONAL LARGER DETECTOR

**TA** TECHNICAL ASSOCIATES

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Model # VMF-TA4

## SPECIFICATIONS:

### •Detectors:

(Model- VMF-TA4) 4 ea. 12" x 1.5" x 44" –

(Model- VMF-TA & TB) 2 ea. 12" x 1.5" x 44" premium Plastic Scintillators.

Sensitive Volume: 792 in<sup>3</sup> per detector.\*

•Range: 1 µR/hr to 1 mR/hr.

•Power Requirements: Operates on 110/220 Volts AC, 50/60 Hz.

•Power Connection: Conduit or cable 6 ft. cable furnished. Three Prong grounded connector.

•High Level Alarm: Flashing red light and intermittent 2900 Hz tone. (90 dB)

### •Alarm Set:

VMF-TA and VMF-TA4 internal factory set at .007 mR/hr rise per second. May be reset by user.

VMF-TB internal factory set at 10% above ambient background. May be reset by user.

•Housing: Weather-tight NEMA rated tough metal housing; water, moisture, and dust tight.

•Alarm Indicators: Ready - OK- High Alarm.

•Count Time: 1 to 20 seconds (VMF-TB only).

### •Energy Range:

Gamma: 80 KeV to 6 MeV.

Beta: above 1 MeV, includes P<sup>32</sup>, Sr<sup>90</sup>, & N<sup>16</sup>.

•Communications: Built-in serial port and Ethernet Node.

### •Dimensions:

Control Box: 16" x 20" x 10" typical plus alarm Beacon.

Detectors 54" H x 15.5" W x 7" D.

•Shipping Weight: 410 lbs. (for 2 detector units.) 850 lbs for (4 detector units)

## OPTIONAL ACCESSORIES:

•Check Source: RAU-BGX, uranium source; license exempt.

•Additional Relays: 5A SPDT to operate other circuits.

•Additional Remote Alarm: RAL-3W flasher, siren.

### •\*Options:

Hard Copy Printer.

7-day Battery Back-up.

Additional detectors.

Alternate detectors other size plastic scintillators, NaI(Tl) Scintillators, or BGO crystal. Specific detectors eg for plutonium or Neutron emitters or Beta emitters.

Photo cell vehicle sensors(s) to initiate count or to measure vehicle speed.

Cables to fit users needs.

Wire-less operation.

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

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