



# Radiation Control Monitor

Exit/Doorway Monitor  
Vehicle Monitor

Package/Mail Monitor  
Laundry Monitor

**Model: LAM-10D/PGS-3  
and LAM-10D/PGS-3L**

## Features

- Stop Entry of Radioactive Items
- Detects Beta-Gamma Rays
- Highly Sensitive 2" x 2" Crystal (Pgs-3L)
- Alarms with Detection of Radiation
- Relay Control Can Lock Doors, Trigger a Siren or Autodialer

## Application

**Maintaining control** of Radioactive Materials is absolutely essential and to know **when** and **where** radioactivity is entering or leaving the area where it is used. **TA Models LAM-10D/PGS-3 and LAM-10D/PGS-3L** are high sensitivity monitors, easily placed at entrance and exits and other strategic locations to act as:

FUNCTION	DETECTS	PLACEMENT
<b>1. EXIT/DOORWAY MONITOR</b>	Alarms when radioactivity is carried through an exit or doorway.	Mount to top or side of door frame or mount to wall.
<b>2. PACKAGE/MAIL MONITOR</b>	When properly installed, checks all mail and packages.	Mount to sorting table, mail conveyor, or door frame where mail baskets enter.
<b>3. VEHICLE MONITOR</b>	Alarms when vehicle carrying radioactivity stops at guard house.	Mount on posts on either side of facility entrance road. Requires weather-proof probe housing and long cables.
<b>4. LAUNDRY MONITOR</b>	Detects contaminated garments	Mount above sorting table or optional conveyor belt.
<b>5. RADITAION RELEASE MONITOR FOR FUME HOODS</b>	Alarms when radioactivity is released into fume hood exhaust.	Mount inside or on top of fume hood filter enclosure.



## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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Exit/Doorway Monitor - Package/Mail Monitor - Vehicle Monitor - Laundry Monitor

Model: LAM-10D/PGS-3 and LAM-10D/PGS-3L

## Options

- SC-10-3 or SC-10-3L Shield Collimator for PGS-3 or PGS-3L probe.
- WPPH-3 or WPPH-3L Water Proof Probe Housing
- CA-xxx Longer Cables
- CB-LIM Conveyor Belt for Laundry Monitoring
- Read-out units and range per customer requirements: mR/h, Sv/h, microCuries/ml, etc.
- Computer interface; RS232, ethernet, etc.
- Complete data logging and acquisition systems

## Sensitivity:

**LAM-10D/PGS-3L** Detects 20  $\mu\text{R/hr}$  (0.2  $\mu\text{Sv/h}$ ) above background in 2 sec: 99% confidence level.

**LAM-10D/PGS-3** Detects 80  $\mu\text{R/hr}$  (0.8  $\mu\text{Sv/h}$ ) above background in 3 sec: 99% confidence level.

\*\*Increased sensitivity can be obtained by optional SC-10-3 or SC-10-3L Shield-Collimators

## Specifications:

<b>Digital Display:</b>	Length = 6 digit rate, 8 digit total dose. Other meter scale markings are available.
<b>Engineering Units:</b>	User can input correct conversion factor and change to any units.
<b>Controls:</b>	Front Panel: On-Off, Alarm-mute, Rate, Integrate, Reset.
<b>Recessed or Internal:</b>	Discriminator level, high voltage, alarm set.
<b>Other Adjustable Settings:</b>	See calibration.
<b>Detectors:</b>	Any GM (P-13, P-15, P-6LB, etc.) or Alpha, Beta, Gamma, or Neutron scintillator (PAS-8, PAS-9, PGS-3, PNS-19, etc.).
<b>Probe Holder:</b>	Probe Holder is provided for probe purchased.
<b>Input Sensitivity:</b>	Adjustable from less than 1 millivolt to 100 millivolt
<b>Anti-Saturation and Dead-Time Corrections:</b>	Differentiation circuit provides highly effective compensation for coincidence loss. This allows all five decades to accurately read with scintillation detectors.
<b>Calibration:</b>	Digital input of calibration factor gives high precision adjustment.
<b>Alarm:</b>	2000 Hz audio tone with audio "mute" switch + RED LIGHT, high current relay. 0-100% of full scale.
<b>Serial Output:</b>	Two way RS-232 standard, Ethernet optional.
<b>Pulse Output:</b>	Internal 1 volt positive. Other outputs and interfaces are optional.
<b>Batteries:</b>	5 amp-Hour Battery Pack with built-in charger.
<b>Power:</b>	105-125 volts, 50-60 Hz (220 V optional)
<b>Construction:</b>	NEMA-4X polycarbonate gasketed case: Rugged and splash-proof.
<b>Weight:</b>	3 lbs. (1.4kg) including batteries and hardware, excluding probe.
<b>Dimensions:</b>	LAM-10D: 10" W x 7" H x 4" D LAM-10DL: 10" W x 7" H x 6" D (excluding handle, probe holder, feet, knobs)



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