

RADIATION CONTROL MONITOR

**EXIT/DOORWAY MONITOR
VEHICLE MONITOR**

**PACKAGE/MAIL MONITOR
LAUNDRY MONITOR**

Model - LAM-10D/PGS-3 & 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
1. EXIT/DOORWAY MONITOR	Alarms when radioactivity is carried through an exit or doorway.	Mount to top or side of door fram or mount to wall.
2. PACKAGE/MAIL MONITOR	When properly installed, checks all mail and packages.	Mount to sorting table, mail conveyor, or door frame where mail baskets enter.
3. VEHICLE MONITOR	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.
4. LAUNDRY MONITOR	Detects contaminated garments	Mount above sorting table or optional conveyor belt.
5. RADITAION RELEASE MONITOR FOR FUME HOODS	Alarms when radioactivity is released into fume hood exhaust.	Mount inside or on top of fume hood filter enclosure.



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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:

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