

INTRODUCTION

PLA's Gate Monitor PVM -1 provides an effective method for monitoring pedestrians, vehicles carrying nuclear material. To prevent unauthorized movement of radioactive material & fissile material, this monitor can be installed at major transport routes, entry points of important buildings, airports, seaports & exit points of various nuclear installations. Also it is required to monitor a moving vehicle (truck/container) loaded with steel scrap material/finished products. It serves as gate monitor. For persons/pedestrians single pole/detector is sufficient, whereas for vehicles, 2 such detectors/poles are to be used. For quicker checking of larger vehicles, poles/detectors are to be increased in multiples of 2.

TECHNICAL PARAMETERS:

Radiation Detected Sensitivity	: Gamma : 1 μ Ci for Co-60 or 2.5 μ Ci for Cs-137 with a monitoring time of 2sec in the ambient background of 0.10 μ Sv/h in the radius of 0.5 meter around the monitor. 4 μ Ci Co-60 at 1.25meter
Detector	: Plastic Scintillation
Overall Dimensions	: 110mm dia., 1.5m height (excluding base) approx..
Alarm	: Visual dome light on the pole & audio-visual alarm at the control unit
Power	: 240 Volt AC, with battery backup.
Relay	: Relay output provided for detected contamination for gate control.

Optional (Extra Cost):

- 1. Data Logger PC** : Desk Top PC Intel core I3, 2BG RAM, 500 GB HD, 16" Color LCD, Key board and mouse.
- 2. PC APPLICATION PACKAGE** : A software application package with GUI to display and Data acquisition. It also creates Data. It has provision to configure alarm.

Cat. No. : PVM-1/0718

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