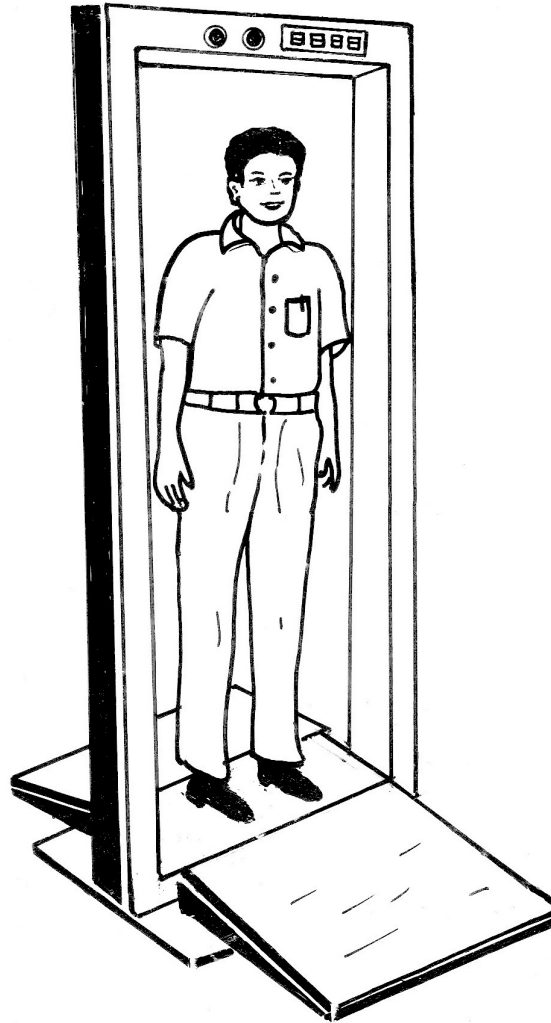


PORTAL MONITOR

TECHNICAL SPECIFICATIONS



- Use: Plastic scintillator based portal monitor for detection of radioactive source movement based on gamma ray detection.
- Detectors; Plastic scintillator detector of 5.1 cm diameter with Two 50cm long at top and bottom, Two 100cm long on the sides.
- Sensitivity: 200g Natural Uranium, 200mg Reactor Grade Plutonium, 20kBq Co- 60 and 37 kBq Cs- 137 unshielded anywhere inside the portal, with a passage time of 1 s and ambient background of 0.10 $\mu\text{Sv/h}$ ($\sim 10\mu\text{R/h}$).
- Power: 230V AC, 25W.

- Passage Time: Normally 1 second on a walk through basis (variable from 1 to 99 seconds).
- Serviceability: Portal: Each detector and controller is accessible for testing and maintenance.
- Portal Monitor Controller: Self-checking routines and easy performance tests simplify board level trouble shooting. The modular design allows quick and easy repair and maintenance.
- Dimensions: 20cm x 56cm x 224cm per pillar. Doorway - 2m X 0.8m.
- Alarm system: The Alarm Monitor is a self-contained unit designed to provide both remote audible and remote visual alarm indication for radiation level, high and low background.

CAT.NO.PMS 1/1211

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