

Personnel Portal



TSA's Personnel Portal Monitor, Model PM-702, is a highly reliable system for the radiometric protection of special nuclear material (SNM). The PM-702 is suitable for indoor use, and is designed to exceed the criteria for a category 2 SNM monitor (will detect 10grams of H.E.U. on a walk-through basis). The system can be slightly modified for outdoor use by emergency responders and configured to function as a portable vehicle monitor as well

In Use At:

- weapons manufacturing
- uranium enrichment plants
- storage plants
- nuclear laboratories
- nuclear waste disposal and storage sites

When the portal is not occupied, the system will automatically monitor background radiation and periodically update a visual display on the controller. When a person enters the portal, the system begins fast count monitoring and will alarm if the count exceeds a predetermined alarm level. The system will also alarm if the background radiation level fails to meet preset limits.

The system consists of two pillars which contain the detector assemblies. The pillars are typically installed with 32" spacing. The system may be set up in any location where a 90-250 Vac 47-63 Hz outlet is available. Typical locations might be entrances and exits to access areas, or between different access areas where SNM is not routinely transferred between zones.

Each pillar contains one radiation detector assembly. The portal monitor controller (SC-755) is mounted on the side of one of the pillars. The pillars use lead shielding on the rear and sides of the detectors to reduce the background radiation and increase the ability of the system to detect SNM passing through the portal.

Specifications

Sensitivity.....U-235, or 0.29g Pu-239; meets ASTM standard C 1169 Category II for Pedestrian SNM Monitors.

Power.....90-250 Vac line power.

Passage Time.....Normally 0.5 seconds on a walk through basis.

Weight.....Approximately 134 lbs (61kg) per pillar.

Dimensions.....Overall size is 100"h x 48"w x 8"d (254 x 122 x 20 cm). Three main components; two vertical pillars, 6" diameter, x 88" high (15 x 224 cm), with 6" (15 cm) dia. crossover which provides 32" (81 cm) pillar spacing.

