Product Specifications

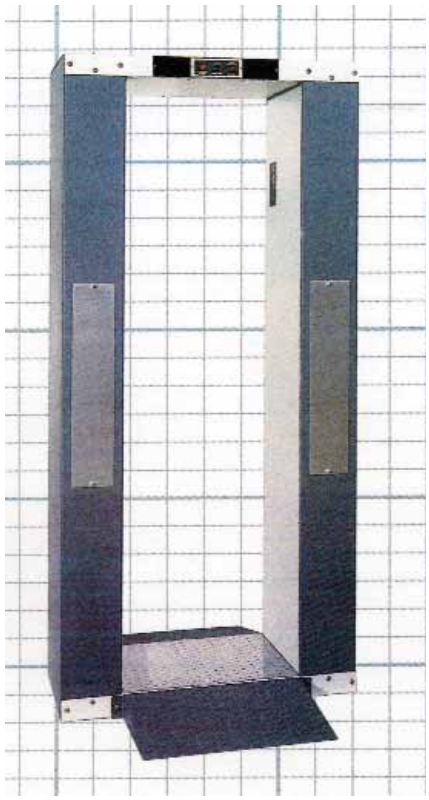
SPM-906

Pedestrian Portal Monitor

The SPM-906 is a Pedestrian Portal Monitor equipped with two large volume plastic scintillator detectors per side, plus smaller detectors for the head and feet.

- Fast all-over monitoring with exceptional sensitivity
- Complete, stand-alone system
- Sturdy, durable construction
- Easy routines for set up and calibration

This monitor is designed to automatically perform consistent, thorough scanning. Designed primarily as a contamination monitor, the SPM-906 will detect less than 100nCi of mixed fission/ activation products on a walk-pause-walk basis.



Set up is accomplished using the hand-held terminal, or a computer with a Windows 95/NT communications program. Both the terminal and the program are included with the system.

When an alarm occurs, the system will sound an audio alarm, and indicate which detector(s) alarmed to help locate the source of contamination. When the system is idle, the background is continuously updated. In the event of a power outage, an internal battery provides eight hours of continuous operation.

Model SPM-906 SPECIFICATIONS

Specification	Benefit
SENSITIVITY:	SNM applications - for 235U and 239Pu. For Health Physics, detects less than 100 nanocuries (3,700 Bq) of mixed activation products in a nominal 20 µR/hr background (0.20 µSv).
DETECTORS:	Two, 12" x 38" x 1.5" (30 x 97 x 3.8 cm) organic plastic scintillator detectors per pillar. One, 10" x 12" x 1.5" (25 x 30 x 3.8 cm) organic plastic scintillator detector at both the head and foot. Total volume of scintillator per system: 3,096 in3 (50.8 liters).
FALSE ALARM RATES:	Typically less than 1 in 1,000 passages. NOTE: Sensitivity and False Alarm Rate are interdependent and must be optimized for different background levels.
POWER REQUIREMENTS:	External 90 - 250 Vac, 50 VA line power; stand-by power 12 Vdc sealed lead acid battery
PASSAGE TIME:	Variable from walk-through to 10 seconds; typically 3 seconds on a walk-pause-walk basis.
SERVICEABILITY:	Self-checking routines and easily performed tests simplify board level troubleshooting. Most electronic assemblies are readily accessed by removing the panels in the center of the vertical pillars.
DIMENSIONS:	88" h x 40" w x 18" d (224 x 100 x 46 cm), pillar spacing is fixed at 24" (61 cm)
WEIGHT:	1200 lbs (544 kg) complete monitor, 1500 lbs (682 kg) packed. Lead Shielding is 0.75" (1.9 cm)
ENVIRONMENTAL:	32° to 122° F (0° to 50° C) Designed for use in an indoor area.

Worldwide
Frauenauracher Strasse 96 +49 (0) 9131 909-0
D 91056 Erlangen, Germany +49 (0) 9131 909-205 fax

United Kingdom
Bath Road, Beenham, +44 (0) 118 971 2121
Reading RG7 5PR United Kingdom +44 (0) 118 971 2835 fax

United States +1 (508) 520-2815
27 Forge Parkway +1 (800) 274-4212 toll-free
Franklin, MA 02038 USA +1 (508) 428-3535 fax

www.thermo.com/rmp

Thermo SCIENTIFIC