



I.I.S.

## PAM-12



Protection of nuclear facility and nuclear power plant personnel requires thorough, frequent monitoring for gamma contamination using a detection system that won't disrupt plant operations. The Thermo Scientific™ PM12 Personnel Gamma Portal Monitor provides simplified but advanced monitoring capability for workers, articles and waste well below clearance levels. The unit has eight identical large gamma-sensitive plastic scintillation detectors to provide coverage from head to feet and accommodates traffic flow in either direction for reliable radiation detection in an efficiently-running process.

The PM12 Personnel Gamma Portal Monitor features eight identical, large gamma-sensitive plastic scintillation detectors; three detector assemblies are located in each side of the portal, with additional detectors to monitor the head and feet. The monitor may be used in five modes: walk-through, one step, two step, three step, stand and turn.

Operates in minimum count time or maximum sensitivity mode.

- Checks individual detectors levels.
- Continuously checks for changing background levels during the measurement.
- Vertical system lights are located on both sides of the portal frame indicate operational status.
- Quick Scan and Quick Background significantly reduce counting time without

compromising the statistical probabilities of detection or false alarm.

- Separate <sup>60</sup>Co and gross alarm levels provide higher alarm sensitivity.
- 16 SUM Zones with individual alarms.
- PC controlled, with embedded Windows operating system.
- Stores all background, measurement, source checking, event log, voltage scanning to an internal SQL database for report generation.
- Set-up, configuration and diagnostic information accessible via a touchscreen LCD or an optional external PC.
- User screens and voice prompts in a wide range of user-selectable languages.
- Dongle security, with three security levels.
- Battery and sensor diagnostics.
- Calibration integrity checking.
- Video camera, barcode reader and EPD reader options.

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Detector Type	Plastic Scintillation
System Control Unit	Windows 7
Detection Volume	4224 in. <sup>3</sup> (69,562cm <sup>3</sup> )
Power Requirements	50Hz
User Interface	Touch screen LCD and LED Status Indicators
Width	37 in.
Depth	46.5 in.
Height	86 in.
Weight	2130 lb.
Description	Gamma Portal with LCD, intel barrier, exit door and 0.5 in. lead shield
Detection Surface Area	2112 in.
Display Type	Color LCD with 12 in. (31cm) diagonal viewing area and touch sensitive overlay
Relative Humidity	Up to 95% RH, non-condensing
Temperature	32° to 113°F
Voltage	230VAC
Alarms	Audible and Visual
Amperage	165w
Certifications/Compliance	CE, UL
Detectors	8 off BC412 equivalent plastic scintillators; three on each side, one overhead and one in foot plinth
Energy Range	20 to 3000 Kev
False Alarm Rate	User selectable
Item Description	Gamma Portal Monitor with LCD, inlet barrier, exit door and 0.5 in. lead shield
Measurement Time	Dependant on Sensitivity Required
Sensitivity	Down to 10 nCi (370 Bq) C0-60
Storage Temperature	-10 to 50°C

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