

GuardianTPM905

Transportable Pedestrian Portal Radiation Monitor



The **Guardian TPM905** transportable portal radiation monitor screens personnel and packages for applications that require high radiation sensitivity monitoring.

The Guardian TPM905 transportable portal radiation monitor screens personnel and packages for applications that require high radiation sensitivity monitoring. It is a field-proven, highly reliable system for the detection of radioactive sources such as medical, industrial, and special nuclear materials (SNMs), making it ideal for security applications and in hospitals, laboratories, and other locations where radioactive materials and sources need to be monitored. The optional vehicle monitoring kit expands its applications, and allows users to configure the system to their specific concept of operations.

The Guardian TPM905 is designed for indoor or outdoor installations and can be set up and operational in 15 minutes. It consists of three main components: two vertical pillars that contain highly efficient plastic scintillator detectors, a crossover pillar, and the controller. The attached numeric keypad alarm with LCD display provides both audible and visual alarm indicators as well as parameter management.

The Guardian TPM905 is compatible with RAVEN™ communication software to capture and display data and video images relating to a radiological detection incident. It is also compatible with our RadViewer application that supports wireless status monitoring of one or more systems simultaneously, providing increased throughput and records management.

FEATURES

- Automated walk-through inspection
- Portable unit with small footprint
- Easy to install and operate
- Vehicle monitoring option
- Cost effective



The communication software pinpoints radioactive sources to remotely assist response personnel in the field.

Guardian TPM905

SPECIFICATIONS

Physical Specifications

Operating Configuration	Walk-through pedestrian monitor
Pillars	Left and right, 1 panel per side
Standard Crossover	32 in (81 cm)
Number of Gamma Detectors	1 per panel
Gamma Detector Material	Polyvinyltoluene (PVT) plastic scintillator
Gamma Detector Size	72in H x 3in W x 1.5in D (182cm x 8cm x 4cm)
Gamma Detector Volume	10.6 liters total detector volume
External Dimensions	85 in H x 43 in W x 9 in D (216 cm H x 109 cm W x 23 cm D)
Weight	90 lbs (41kg)

Performance Specifications

Special Nuclear Material (SNM) Detection	Meets ANSI N42.35 and ASTM C1169 Category II
Energy Range	60 keV to 3 MeV

Operation

Alarm Level	User configurable $N \cdot \sigma$, entered from the numeric keypad
Audible:	Loud signal
Visual:	Green "ready/clear" light; red "alarm/fault" light
Controller/Display	4 x 20 character alphanumeric LCD display with password-protected keypad for the following adjustments: counting interval, N' STD DEV radiation alarm level, high/low background alarm levels, occupancy hold-in, lower level discriminator, upper level discriminator, date/time
Communications Interfaces	Ethernet, Serial port (optional)
Data Storage	Battery backed RAM (128 KB) is used to store average hourly background data and alarm data. Under normal conditions the memory should be adequate to store data for at least 3 months of operation
Power Requirements	90–240 VAC, 50–60 Hz, or 6 alkaline D cells for approximately 12 hours of operation
Certifications	European Council Directives 2014/30/EU, 2014/35/EU, CE Marking

Operating Environment

Operating Temperature	-4 °F to +122 °F (-20 °C to 50 °C)
Environmental	IP65 rated

ASTM Standard C 1169 is available from The American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428 (610) 832-9585 www.astm.org.

STANDARD FEATURES

- Gamma radiation detection
- Programmable detection parameters
- Audio and visual indicators
- Relay outputs for Central Alarm Station (CAS) integration
- Universal power supply
- Ethernet connectivity
- Battery backup
- Storage case

OPTIONAL FEATURES

- RAVEN communications and remote monitoring software
- Passenger vehicle and small truck monitoring kit
- IP65-rated TPM wireless transmitter kit for network con



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