# TSA PM702

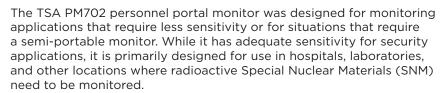
A walk-through portal monitor to automatically screen pedestrian traffic for radioactive materials.

Portal Monitor for Indoor or Outdoor Installation

Continuously Screens Moving Pedestrians

Easy to Relocate

Cost Effective



# Cost Effective, Reliable Detection

The TSA PM702 portal monitor is a highly reliable system for the radiometric protection of special nuclear material (SNM). It exceeds the criteria for an ASTM Standard C 1169 Category II\* SNM monitor which will detect 10 grams of  $^{\rm 235}$ U (HEU) on a walk-through basis when using the stop feature.

#### Flexible Design

The TSA PM702 is suitable for indoor or outdoor installation. The system consists of three main components; two vertical pillars each containing an organic plastic scintillator detector, and a crossover pillar. An optional step through feature provides optimal SNM monitoring.

# Easy-to-Operate and Manage

A numeric keypad alarm with an LCD display attaches to the pillar and provides both audible and visual alarm indicators. The system operates from an internal battery. Under normal conditions the memory should be adequate to store data for at least 3 months of operation.

#### **Interface Options**

The TSA PM702 is compatible with TSA RAVEN™ communications software designed to both capture and view data and video images relating to a radiological detection incident.



#### Standard Features

Gamma Detection

Programmable Detection Parameters

Audio and Visual Indicators

Relay Outputs for User Interface

Universal Power Supply

**Ethernet Connectivity** 

Battery Backup

TSA RAVEN™ Compatible



TSA RAVEN™ (Radiation Alarm and Video Event Notification) communications software is used remotely to assist response personnel in the field to pinpoint

radioactive sources. RAVEN can monitor multiple detectors and aid in managing individual detector activity.

### Markets

Aviation

Critical Infrastructure

Customs and Border Control

**Event Security** 

Law Enforcement

Defense



An OSI Systems Company

# TSA PM702

## Specifications

Sensitivity Will detect 10g <sup>235</sup>U (HEU) or 0.30g <sup>239</sup>Pu; when tested in

accordance with ASTM Standard C 1169 Category II\* for

pedestrian SNM monitors.

Detectors One, 72 h x 3 w x 3 d in. (183 x 8 x 8 cm) organic plastic

scintillator detector per pillar; provides approximately 1,296 in<sup>3</sup> (21.2 liters) of detector volume per system.

Alarm Level N\*sigma, entered from the numeric keypad

False Alarm Rates Typically less than 1 in 1,000 passages

Alarm Indication Audible and visual alarms

Display LCD, 4 lines x 20 characters
Communications 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 which provide

approximately 12 hours of operation.

Dimensions Overall size: 93 h x 53 w x 9 d in. (236 x 135 x 23 cm) The

system consists of three main components; two vertical pillars, each one is 6 diameter  $\times$  83 h in. (15  $\times$  211 cm), with 6 in. diameter (15 cm) crossover which provides 32 in. (81 cm) pillar

spacing.

Weight ≈120 lbs (54 kg) per pillar

\*ASTM Standard C 1169 is available from your Rapiscan Systems sales representative or The American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428 (610) 832-9585

# Options

TSA RAVEN™ Communications Software

Serial Port

Step Through Grate

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.



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Rapiscan Systems is ISO 9001:2008 Certified