

The Thermo Scientific TPM-903B is designed for rapid radiation screening of personnel. It provides early warning of hot spots, e.g., on protective clothing, and has design features suited for monitoring radiation workers, vehicles or the public.

## Thermo Scientific TPM-903B

### Transportable Radiation Portal Monitor



#### Features

- Quick and easy setup
- Lightweight construction
- Very sensitive, highly uniform responses to gamma radiation
- Exceeds FEMA <sup>137</sup>Cs sensitivity requirements
- Powered by AC or D-cell batteries
- Excellent price/performance ratio

#### Features New to the TPM-903B

- Networkable
- Backlit display
- Brighter lamps
- Louder alarm
- Controller can be remotely operated

The Thermo Scientific TPM-903B is a lightweight, portable portal monitor that is ideal for either permanent or temporary installation. The aperture accommodates pedestrians, wheelchairs, walkers, ambulance gurneys and strollers; and can also be easily adapted as a vehicle monitor.

Emergency response teams, security forces, HAZMAT and evacuation teams can make use of the adaptable TPM-903B. Quick and easy installation with minimal instruction needed, it is the perfect tool to provide personnel radiation screening in an emergency response scenario or temporary security event. Head-to-toe coverage is

achieved in quick fashion, allowing for maximum throughput without the need for excessive searches of personnel, hand-carried items, or vehicles.

The TPM-903B also detects shielded sources, providing high confidence for security and emergency response personnel.

The TPM-903B exceeds the FEMA <sup>137</sup>Cs sensitivity requirements. Monitoring for beta and gamma radiation, the wide, full-length detectors of the TPM-903B provide maximum coverage of walk-thru pedestrians as well as wheeled persons and items.

### Setup of the TPM-903B

Setup is a breeze. Simply clamp the pillars to floor stands with the provided thumbnuts, make simple connections, slide the crossbar into push fit, connect the unit to AC power or D-cell batteries and switch it on.

With preset parameters, self-testing is complete in 2 seconds and background is acquired in 20 seconds. The Thermo Scientific TPM-903B is then operational.

If parameters need adjustment, the LCD display prompts the operator for setup values which are entered via the password-protected keypad.

Alarm level, time and date, and signal amplitude discrimination level are all adjustable.

The TPM-903B is supplied in a ski-style bag containing just five main pieces: two support stands, two vertical pillars and the cross bar which holds the controller. With a total weight of only 90 lbs (approx.) it can easily be wheeled into place.

The TPM-903B operates equally well from AC power or six alkaline D-cells which provide over many hours uninterrupted use.

## Thermo Scientific TPM-903B

### General Specifications

Detector Volume	2 x BC408 plastic scintillators, each 1829 mm x 75 mm x 38 mm (72 in x 3 in x 1.5 in). 648 in <sup>3</sup> ; 1.6 mm (1/16") lead shielding around three sides over the full length
Sensitivity	< 1 µCi under ambient conditions (RDA); <sup>137</sup> Cs
Energy Range	60 keV to 2 MeV
Walk-Through Time	2 seconds
Controller	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
Occupancy Sensor	Adjustable infra-red motion sensor
Indicators	Visible: Green "ready/clear" light; red "alarm/fault" light Audible: Loud signal
Dimensions	2,310 mm x 930 mm x 610 mm (91 in x 36.5 in x 24 in) assembled 2,032 mm x 457 mm x 457 mm (80 in x 18 in x 18 in) packed in carrying bag
Weight	40 kg (90 lb) approx.
Power	90 VAC to 264 VAC, 47 Hz to 63 Hz, 50 VA, or six alkaline D-cells
Operating Temperature	-20°C to +50°C (-4°F to +122°F)

### Options

TPM-903VK	Transportable portal monitor vehicle kit
TPM-Case	Hard-sided transport case with wheels
TPM-Soft-Case	Soft-sided transport case with wheels

### About Thermo Fisher Scientific

Thermo Fisher Scientific (NYSE: TMO) is the world leader in serving science, enabling our customers to make the world healthier, cleaner and safer. With an annual revenue stream of more than \$9 billion, we employ 30,000 people and serve over 250,000 customers within pharmaceutical and biotech companies, hospitals and clinical diagnostic labs, universities, research institutions and government agencies as well as environmental and industrial processing settings. Serving our customers through two premier brands, Thermo Scientific and Fisher Scientific, we help solve analytical challenges from routine testing to complex research and discovery.

Thermo Scientific offers customers a complete range of high-end analytical instruments as well as laboratory equipment, software, services, consumables and reagents to enable integrated laboratory workflow solutions. Fisher Scientific provides a complete portfolio of laboratory equipment, chemicals, supplies and services used in healthcare, scientific research, safety and education. Together, we offer the most convenient purchasing options to customers and continuously advance our technologies to accelerate the pace of scientific discovery, enhance value for customers and fuel growth for shareholders and employees alike.

©2008 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Results may vary under different operating conditions. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representatives for details. Literature Code RMP.2001.A0208

27 Forge Parkway  
Franklin, MA  
02038 USA  
+1 (800) 274-4212  
+1 (508) 520-2815 fax

Bath Road, Beenham  
Reading, Berkshire  
RG7 5PR United Kingdom  
+44 (0)160 654 8170  
+44 (0)160 654 8145 fax

Duisburger Straße 81  
D-46049 Oberhausen,  
Germany  
+49 (0) 208 82 4930  
+49 (0) 208 85 2320 fax

[www.thermo.com/rmp](http://www.thermo.com/rmp)

**Thermo**  
SCIENTIFIC