Product Specifications

The TPM-903 is designed for rapid screening of personnel in the event of a radiation release. It provides early warning of hot spots, eg. on protective clothing, and has design features suited for monitoring radiation workers, vehicles or the public.

TPM-903

Transportable Radiation Portal Monitor

- Lightweight construction
- Very sensitive, highly uniform responses to gamma radiation
- Exceeds FEMA ^{137}Cs sensitivity requirements
- Powered by AC or 40 hr battery
- Quick and easy setup
- Excellent price/ performance ratio

The TPM-903 is lightweight and mobile to facilitate transport to its location, where it is easily installed within seconds.

In use, the aperture accommodates walkers or wheelchairs, and can be adjusted to also accommodate vehicles. Users are first detected by the occupancy sensor which switches the detectors from updating the background into scan mode. The alarm is given if the counts exceed a predetermined level, if not, the green "ready/clear" light remains on.

The passage time is typically 1 second and a Reliably Detected Activity (RDA) figure of 1 µCi in a 25 uR/h background.

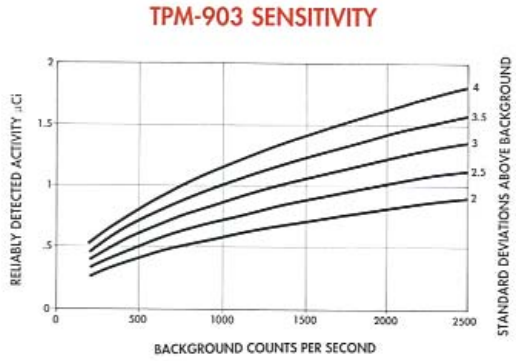
Setup is a breeze!

1. Clamp pillars to floor stands with thumbnuts provided
2. Make MHV connections
3. Slide crossbar into push fit
4. Connect D-cell batteries and switch on

With preset parameters, self-testing is complete in 2 seconds and background is acquired in 20 seconds. The TPM-903 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, signal amplitude discrimination level, resetting of occupancy sensor and detector variance test are all adjustable.



System Specifications

The TPM-903 is supplied in a ski-style bag containing just 5 main pieces: 2 support stands, 2 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-903 operates equally well from AC power or 6 alkaline D cells which provide over 40 hours uninterrupted use.

Carrying Case

Vehicle Monitor

TPM-903 Specifications

Detector volume:	2 x BC408 plastic scintillators, each 1829 x 75 x 38 mm (72" x 3" x 1.5"). 648 cu.in. 1.6 mm (1/16") lead shielding around 3 sides over the full length.
Sensitivity:	< 1 µCi under ambient conditions (RDA).
Energy range:	60 keV to 2 MeV.
Walk-through time:	1 second.
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:	Green "ready/clear" light. Red "alarm/fault" light.
Dimensions:	2310 x 930 x 610 mm (91" x 36.5" x 24") assembled. 2032 x 457 x 457 mm (80" x 18" x 18") packed in carrying bag.
Weight:	40 kg (90 lb) approx.
Power:	90 to 264 VAC, 47 to 63 Hz, 50 VA, or 6 alkaline D cells will provide 40 hrs of operation (approx.)
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.

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