



RADIATION MONITORING & SURVEY SYSTEMS

PFT-1 : Foot Monitor



Foot Monitor Model PFT-1 manufactured by Para Electronics (I) Pvt.Ltd. is developed to detect the nuclear contamination on the shoes. This unit is designed around 4 nos of thin walled GM tubes (type 719) for detection of beta/gamma contamination on the bottom of the footwear. A pulse from each GM tube is counted independently before all the counts are added together to determine if the aggregate counts are below the set level. Counting time, Alarm level are user settable. Audio / Visual alarms are provided when the contamination level crosses the set limit. LCD menu display indicates the status of the contamination and is used for diagnostic purposes also. The detection of person's standing is done by the light switches, which automatically start counting of pulses from GM tubes.

GM tubes, 4 nos, used in Model PFT-1 are surrounded by 6 mm thick lead shield. This reduces the background counts. Foot Monitor continuously counts the background counts and stores the latest background. These background counts are subtracted from the actual counts. Net counts are used for alarm activation.

Specifications :

Detector Assembly

Detectors	:	4 nos of thin walled GM tubes type 719 or equivalent (2 GM tubes per foot)
Lead Shield	:	6 mm thick lead shield on five sides around the GM tubes
S.S. Grill	:	On the top of the GM tubes
Light Switches	:	2 nos to detect the standing of person on the foot monitor

Counter/ Alarm Assembly

Electronics	:	Microcontroller based counter with 16 x2 Line Character LCD menu display for counts and other messages
No of Channels	:	2 with separate counters
Timer	:	Settable between 1 to 99 seconds
Alarms	:	Audio and Visual
Alarm Setting	:	Settable upto 9999 counts/measurement
Background Sub.	:	Selectable ON or OFF

General

Dimensions	:	460 L x 470 W x 150 H
Weight	:	Approximately 25 Kg
Power	:	240V (± 10%), 50 Hz AC single phase