

PALM CONTAMINATION MONITOR

TYPE : PCM 738

Technical Data



FEATURES

- ❑ Micro-controller based design.
- ❑ Efficiency > 25% for Am-241.
- ❑ Uses ZnS scintillator coupled to PMT of suitable dia.
- ❑ Provided with a rugged protective grill.
- ❑ 16x4 LCD display for showing counts & configuration screens.
- ❑ Visual and audio alarms in the event of alarm condition.
- ❑ Uses interface is through a detachable keypad.
- ❑ Monitor design ensures continuous maintenance free operation in harsh atmospheric conditions in Radiochemical plants.

Palm Monitor Type PCM 738 manufactured by NUCLEONIX SYSTEMS primarily serves as a personnel monitoring system for checking the alpha/beta/gamma contamination of Palm of radiation workers / technicians working in Nuclear Power Plants, reactors, Radiochemical plants and other similar installations. This is wall mounted design.

Start of counting is initiated by an IR source detector arrangement.

Guidance to the user during monitoring is in the form of textual messages during monitoring & at the end of monitoring.

SPECIFICATIONS

Detector : Zns (Ag) Scintillator of dimensions 140x220mm covered with Aluminized mylar film and coupled to suitable 2Pi PMT serves as the Alpha detector. It is also provided with a rugged SS grill for protection to the detection assembly.

Palm / Clothing Mode : By an IR sensors selection

Efficiency : >25%

Display : 16x4 dot matrix LCD for configuration & display of counts.

Preset time : 1 - 99 sec.

Measuring Range : 0 - 9999 counts / 0-9999 CPS / 0-99999 CPM

Preset counts range : 1 - 9999 counts

User Interface : A 2x2 matrix detachable keypad has been provided for configuring the instrument.

Indication : Counting ON, Clean, Contaminated, Incomplete operation, High Background.

Audio : Warning audio signals for contaminated and incomplete operation.

Data storage & transfer: Data storage facility for last 1000 readings is provided. Each reading is stored along with time stamp. This data can be transferred through the USB port to PC.

Power Supply : 230V AC, +/- 10% at 50Hz.