

**Technical Data**

**Radiation Survey Meter Type RM 703E** is a latest addition to the NUCLEONIX range of Radiation Survey Meters, designed around a microcontroller chip. It is a compact battery powered, hand-held general purpose Gamma alarming Survey Meter. It measures both Gamma Dose Rate and X-ray Contamination. It has an external G.M. Detector probe connected through a cable.

This unit has preset alarm facility which can be set throughout the range of the instrument.

The most important feature of the unit is, that it has a memory to store 1000 readings both in dose rate / CPS mode. User can recall back stored readings and display them. Also the readings can be downloaded into PC.

**FEATURES**

- Compact, elegant & light weight and the unit is provided with an external measuring probe.
- Microcontroller based design. Measures both Gamma Dose Rate and X-ray Contamination.
- Dose Rate range upto 10R/hr and contamination upto 99999 CPS/CPM.
- Accuracy within +/- 15% with Cs-137.
- Works on 6V (4x1.5V) dry batteries.
- RTC for time stamp of each reading.

**SPECIFICATIONS**

**Radiation Detected :**

X-ray & γ-ray

**Detector :** GM Counter Type

**Detector Probe :** Detector is housed in a cylindrical probe which has a shutter arrangement for Beta/ Gamma selection.

**Measurement unit :**  
mR /h /μSv /h /cpm /cps.

**Measurement Ranges :**

**a. Dose Rate :** 0 - 10R/h (or) 0 - 100mSv/h.

**b. Count rate :** 0 - 99999 CPM/ CPS.

**Range selection:** Automatic.

**Display Indication :** 16x2 backlit LCD display for showing dose rate / countrate apart from configuration textual screens during.

**Response Time :** <5 sec

**Preset Alarm Range :**

0-10000mR/hr (or) 0 - 100 mSv/h (or) 0 - 99999 cps (or) 0 - 99999 cpm.

**Audio :** Built-in piezo buzzer provides beeps for every detected pulse and alarm o/p for preset alarms

**User Interface** User

interface through 6 control buttons START, STOP, PROG, STORE, INC & DEC. The above buttons allow the user to program & operate the instruments in different modes. Apart from powering unit ON/OFF.

**Data storage memory :**

Stores readings in built-in E<sup>2</sup>PROM. Stored data can be recalled on the display or transmitted to PC through USB port.

**RTC :** Real time stamp is recorded along with each reading.

**Serial Port (optional) :**

Built-in micro USB port facilitates data down loading into PC. Data Communication Software with Micro USB connecting cable can be provided at extra cost as an additional option.



**Fault Diagnostics :** Low battery indication is provided on the display.

**Power :** 6Volts, DC, size AA, MN1500 LR6 (4 X 1.5 Volts), Alkaline cells.

**Dimensions :**

106W x 196L x 100Ht in mm (approx).

Head of the Dept.

*R.V.Ramesh*

Approved By