RADIATION SURVEY METER
TYPE : RM 703E

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 Alaram 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.
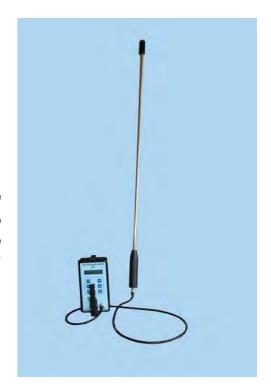
Data storage memory :
Stores   readings   in   built-in E^{2}PROM.   Stored   data   can   be recalled   on   the   display or transmitted to PC through USB port.

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).