



RADIATION SURVEY METER

TYPE: RM751IP

Technical Data

RADIATION SURVEY METER - Type: RM751IP is a next generation, Compact Series, Radiation Survey Meter. It is, primarily a G.M. Detector based, battery powered, hand-held, ruggedized general-purpose radiation Survey Meter. This will be useful for dose & dose rate measurements in nuclear installations, Radiochemical plants, Reprocessing plants, Radiotherapy depts, nuclear medicine centres etc. Additionally, it will be useful in industrial and other installations where radioactive sources are used for a variety of applications.

This product is designed around a low power Micro-controller Chip. It is provided with a Graphic LCD display for indicating the dose-rate, cumulative dose etc. It covers wide range from 0 to 10R/hr with auto ranging. This unit has a facility for storing the data into built-in flash memory along with time stamp. The stored data can be retrieved Via Blue-tooth to mobile. Also, Readings can be displayed on graphic LCD.

FEATURES:

- Compact, elegant, light weight and IP Rated.
- Low Power Microcontroller based design, Next Gen Series.
- Uses energy compensated GM Counter.
- Measures Dose Rate in R/hr or Sv/hr or Gy/hr dose in R or Sv or Gy.
- Calibration Accuracy +/- 15%.
- Range changeover Automatic.
- Built-in Bluetooth facilitates wireless transmission of stored data to Mobile.
- Works on 3V (1.5VX2) dry cell batteries (AA) and can be also used with Rechargeable batteries (AA).

SPECIFICATIONS

Detector: GM counter Type GM 130 with energy compensated filter.

Radiation detected: X & Gamma, from 60Kev to 1.3 MeV.

Measurement Units : R/h / Sv/h / Gy /hr /cps / cpm.

Dose Rate :

0.01 mR/hr – 10 R/hr

0.1 µSv/hr - 100 mSv/hr

0.01 mcGy/hr- 10 cGy / hr.

Cumulative Dose up to 100 R or 1 Sv

Count rate: 0 - 99999 CPS / CPM.

Preset alarm range: 5 - 10R/hr (or)

50– 100 mSv/hr.

Range Changeover: Automatic

Over range: Unit shows over range above 10% of full-scale range.

Energy Response: Within +/- 20% of true response from 60 KeV to 1.25 Mev.

Calibration Accuracy: +/- 15%.

Display: Graphic LCD display with 128 X 64 Pixel and 46.5W X 27.6 Ht

Response Time: < 5 sec.

Audio: Built-in piezo buzzer provides beeps for every detected pulse and continuous alarm above for preset alarms, level.

Data Storage: Can store upto 2000 readings. Stored data can be recalled back on to display or transmitted to mobile through Blue-tooth connection.

Serial port / data communication:

Built - in Blue-tooth wireless mode.

User Interface Buttons: A power ON /OFF, PRG, SRT / ENT, STP / EXT ▲(INC), ▼ (DEC) are the Six

control buttons allow the user to program and operate the instrument in desired manner.

RTC: Real time stamp recorded with each reading, in data store mode.

Fault Diagnostics: Low battery indication is indicated on the display.

Enclosure: Flame retardant ABS plastic case and IP56 Rated

Size: 85W x 35H x 145D in mm (approx.)

Weight: < 300 gms.

Additional Options offered include:

- i) Pelican carrying case.



