RADIATION SURVEY METER (micro) Type: RM701N is a G.M. Detector based, battery powered, hand-held, ruggedized general purpose radiation Survey Meter. This will be useful for dose rate measurements in Nuclear installations, Radiochemical plants, Reprocessing plants, etc. Additionally it will be useful in medical, agricultural, industrial and other installations where radioactive isotopes are used for a variety of applications.

This product is designed around a Microcontroller Chip. It is provided with alpha Numeric LCD display for indicating the doserate in digits, cumulative dose in digits. It covers wide range from 0 to 10R/hr in two range with auto ranging. This unit has a facility for storing the data into built-in E²PROM along with real time. The stored data can be recalled on to the display or transmitted to PC through USB port.

## FEATURES:
- Microcontroller based design.
- Compact, elegant and light weight.
- Uses energy compensated GM Counter.
- Range changeover Automatic.
- Accuracy+/- 15% with Cs-137.
- Measures Dose in mR/hr or µSv/hr.
- Facilitates storing recalling of readings and transmission of readings to PC.
- Works on 6V (1.5X4V) dry cell batteries.
- RTC for time stamp of each reading.
- IP rating is better than IP56.
- EMI/EMC compliance as per IEC61000-4-3.

## SPECIFICATIONS

### Detector
- GM counter Type GM 130 with energy compensated filter

### Radiation detected
- X & Gamma, from 60Kev to 1.3  MeV

### Measurement Unit
- mR/h / µSv/h / cps /cpm

### Measuring Range
- 0 – 1000.0 mR/hr (Low Range)
- 1 R/hr - 10 R/hr (High Range)
- 0 – 10,000 µSv/hr (Low Range)
- 10 mSv/hr - 100 mSv/hr (High Range)

### Preset alarm range
- 0-10000.0mR/r
- (or) 0-100000µSv/h.

### Range Changeover
- Automatic

### Over range
- Unit shows over range above 10R/hr to 1000R/hr

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

### Accuracy
- +/- 15% with Cs-137.

### Display
- 16X2 alpha numeric LCD display; Digital display of dose rate and units in the first line, dose display in the second line.

### Response Time
- < 5 sec

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

### Data Storage
- Can store upto 1000 readings. Stored data can be recalled back on to display or transmitted to PC through micro USB port.

### Serial port / data communication
- Built- in Micro USB port facilitates data downloading into PC.Data communication software with connecting cable can be provided at extra cost.

### User Interface
- A part from powering unit ON/OFF, STORE, INC ,DEC & ON/OFF are the seven control above buttons allow the user to program and operate the instruments in appropriate manner.

### RTC
- Real time stamp recorded with each reading.

### Fault Diagnostics
- Low battery indication hv fault& detector failure are provided on the display.

### Type test compliance:
- a) IP rating is better than IP56 for unit.
- b) EMI/EMC compliance as per IEC61000-4-3.

### Dimensions
- 196H x 106W x 50D mm (approx.)

### Weight
- 1Kg (approx.)