CE

Technical Data

CONTAMINATION MONITOR - Type: CM722IP is a next generation, Compact Series, Contamination Monitor. It is a pancake Detector based, battery powered, hand-held, general purpose Contamination Monitor. This will Serve as a low-level survey meter cum contamination monitor useful in nuclear installations, Radiochemical plants, Reprocessing plants, etc. Additionally, it will be useful in medical, industrial and other installations where radioactive sources are used for a variety of applications, to measure Beta Gamma Contamination.

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 0.01 to 200 mR/hr. 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:

- ❑ Low Power Microcontroller based design, Next Gen Series and IP rated enclosure
- ❑ Measures dose rate up-to 200 mR/hr & 2000 µSV/ hr
- ❑ Measures contamination in CPS / CPM or Bq / sq.cm.
- ❑ External probe with cover for Beta / Gamma, selection.
- ❑ Range changeover Automatic.
- ❑ Calibration Accuracy +/- 15%.
- ❑ Built-in Blue-tooth facilitates wireless transmission of stored data to Mobile.
- ❑ Works on 3V (1.5VX2) dry cell batteries / battery cells (AA) and can also be used with rechargeable batteries (AA).

SPECIFICATIONS

Detector: Pancake detector Probe.
Radiation detected: Beta & Gamma.
Measurement Units: mR/h, µSv/hr, CPS / CPM, Bq / sq.cm.

Dose Rate:
0.01 mR/h - 200 mR/h
(or) 0.1 µSv/h – 2000 µSv/h.
Surface Contamination:
0.01 - 99.99 Bq/sq.cm
Contamination:
(i) CPS / CPM or
(ii) Bq / Sq.cm.

Count rate: 0 - 99999 CPS / CPM
Preset alarm range: 5 – 200 mR/hr.

Over range: Unit shows over range above 10% of full-scale range.
Range Changeover: Automatic
Calibration Accuracy: +/- 15%.

Display: Graphic LCD display with 128X64 Pixel and 46.5W X 27.6 Ht

Response Time: < 4sec.

Audio: Built-in piezo buzzer provides beeps for every detected pulse and continuous alarm above for preset alarms, level.
Data Storage: Can store up to 2000 readings with time stamp. Stored data can be recalled back on to display or transmitted to mobile through Blue-tooth connection.
Serial port / data communication:
Built - in Via Blue-tooth in 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 storage mode.

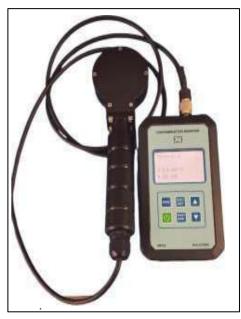**Fault Diagnostics:** Low battery indication is indicated on the display.
Enclosure: Flame retardant ABS plastic case and IP56 Rated

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

Weight: < 300 gms.
Additional Options offered include:
i)   Pelican carrying case