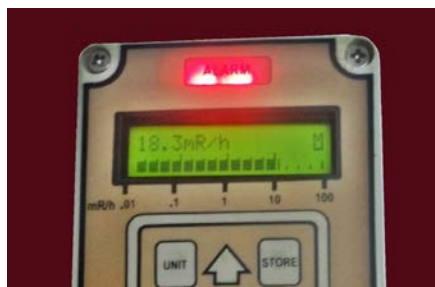


# **CONTAMINATION CUM SURVEY METER**

## **PCRM152D**

### **SALIENT FEATURES**

- MICRO CONTROLLER BASED
- DATA STORAGE
- SERIAL PORT
- BACK-LIT LCD DISPLAY (16 X 2)
- 0.01 TO 200 MR/HR
- 00.1 $\mu$ Sv/h to 1.99mSv/h
- CPS
- CPM
- PANCAKE PROBE
- DATE AND TIME STAMPING
- RECHARGEABLE BATTERIES WITH BATTERY CHARGER
- PRESET TIME FACILITY



### **INTRODUCTION**

Radiation Survey Meter Type PCRM-152D has been designed to monitor nuclear radiation (Beta & Gamma). Pancake GM Tube is used for this instrument to measure radiation from 0.01 to 200mR/hr (**00.1 $\mu$ Sv/h to 1.99mSv/h**) with Auto Range Selection. 1000 radiation data's can be stored & retrieved on 16 x 2 backlit LCD. Readings are stored with date & time stamp. Stored data can be transferred to PC by serial port. Rechargeable batteries are provided for this instrument.

### **TECHNICAL SPECIFICATIONS**

<b>Radiation Detected</b>	: $\beta$ (Beta) & $\gamma$ (Gamma).
<b>Detector</b>	: Pancake GM tube with $\beta/\gamma$ discriminator. (areal density $\cong$ 1.5-2.0mg/cm <sup>2</sup> , Effective dia $\approx$ 1.75")
<b>Count Rate Range</b>	: Upto 5 KCPS, Upto 50 KCPM
<b>Dose rate Range</b>	: 0.01 to 200mR/h, 00.1 $\mu$ Sv/h to 1.99mSv/h.
<b>Accumulated Dose</b>	: 1 $\mu$ R to 9999999 $\mu$ R / 00000.01 $\mu$ Sv to 99999.99 $\mu$ Sv with time hh:mm:ss
<b>Time Constant</b>	: Auto or Manual
<b>Energy Response</b>	: 200Kev to 2MeV (Cs-137)*.

\*Though the instrument will respond to energy as low as 100KeV, the calibration holds good for the above mentioned energy range only.

<b>Accuracy</b>	: $\pm$ 15% .
<b>Display</b>	: 16 x 2 Character Back-lit LCD.
<b>Backlit ON/OFF button</b>	: Backlit can be turned ON/OFF to save power.
<b>Bargraph</b>	: 4 decade bargraph for doserate upto 100mR/h on above LCD.
<b>Chirp</b>	: Buzzer sound per count provided.
<b>Alarm</b>	: Audio & visual settable alarm.

<b>User Interface</b>	: Menu driven with STORE, UP, DOWN, LEFT, RIGHT, ENTER buttons.
<b>Data Storage</b>	: Last 1000 reading stored & retrieved with serial number & Real Date & Time Stamp.
<b>Recall Menu</b>	: Recalls the Data saved.
<b>Block Menu</b>	: Data stored can be dumped to PC via serial port or deleted with FROM & TO range.
<b>Preset Time Menu</b>	: 4 Digit Timer, 6 Digit Counter, 99 Cycles.
<b>Set Unit Menu</b>	: Allows user to set Unit : R/h, Sv/h, CPS, CPM.
<b>Serial Port</b>	: UART Port with USB cable.
<b>Power</b>	: Rechargeable batteries with battery charger.
<b>Size</b>	: 16cm x 8.5cm x 5.5cm approx. (instrument).
<b>Accessories</b>	: Battery charger, carrying case.

**Note:** All optional items at an extra cost.

Cat. No. PCRM152D/0117

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