

SALIENT FEATURES

• MICRO CONTROLLER BASED • DATA STORAGE • SERIAL PORT • BACK-LIT LCD DISPLAY (16 X 2) • 0.01 TO 200 MR/HR • 00.1 μ Sv/h to 1.99mSv/h • CPS • CPM • PANCAKE PROBE • DATE AND TIME STAMPING • RECHARGEABLE BATTERIES WITH BATTERY CHARGER • PRESET TIME MODE • bq/cm² MEASUREMENT • DOSE MEASUREMENT • AUDIOVISUAL ALARM



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 μ 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

Radiation Detected	: β (Beta) & γ (Gamma).
Detector	: GM Probe using pancake GM tube. (areal density \cong 1.5-2.0mg/cm ² , Effective dia \approx 1.75") Probe with 1m long cable, suitable connector & β/γ discriminator.
Count Rate Range	: Upto 10 KCPS, Upto 50 KCPM
Dose rate Range	: 0.01 to 200mR/h, 00.1 μ Sv/h to 1.99mSv/h.
Accumulated Dose	: 1 μ R to 9999999 μ R / 00000.01 μ Sv to 99999.99 μ Sv with time hh:mm:ss
Alarm	: Audio & visual settable alarm for doserate and count rate
Time Constant	: Auto or Manual
Energy Response	: 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.
Accuracy	: \pm 15%
Display	: 16 x 2 Character Back-lit LCD
Backlit ON/OFF button	: Backlit can be turned ON/OFF to save power
Bar graph	: 4 decade bargraph for doserate upto 100mR/h on above LCD.

Cat. No. PCRM152D/0123

PLA ELECTRO APPLIANCES PVT. LTD.

PLA HOUSE (THAKOR ESTATE), KURLA - KIROL ROAD, VIDYAVIHAR (WEST),MUMBAI - 400 086

TEL: 9653101920/9136618187FAX : 91-22 - 2516 8948 WEB : www.plaelectro.com INQUIRY: marketing@plaelectro.com

GENERAL: pla@plaelectro.com

Chirp	: Buzzer sound per count provided with enable/disable facility
User Interface	: Menu driven with STORE, UP, DOWN, LEFT, RIGHT, ENTER & UNIT, STORE, CHIRP & LIGHT buttons
Preset Time Menu	: 4 Digit Timers, 6 Digit Counter, 99 Cycles
Bq/cm2 Menu	: 00.1 to 99.9bq/cm2 with isotope selection library (5 isotopes) & settable isotope name, efficiency, background
Data Storage	: Last 1000 reading stored & retrieved with serial number & Real Date & Time Stamp for dose rate, count rate and for preset time
Recall Menu	: Recalls the Data saved.
Block Menu	: Data stored can be dumped to PC via serial port or deleted with FROM & TO range
Serial Port	: RS232, 9600bps
EHT (factory set)	: 900V DC approx.
Temperature Range	: $\leq -5^{\circ}\text{C}$ to $\geq 40^{\circ}\text{C}$
Power	: Rechargeable batteries with battery charger Batteries can be changed without removing from instrument
Single Hand operation	: Detector probe (which is detachable also) can be attached to the instrument in such a way that frisking and instrument holding can be done by single hand
Size	: 14cm x 8cm x 4.5cm approx. (instrument) 10.5cm x 7cm x 3cm (probe) Handle dimensions extra.
Accessories	: Rechargeable batteries, Battery charger, carrying case

Cat. No. PCRM152D/0123

PLA ELECTRO APPLIANCES PVT. LTD.

PLA HOUSE (THAKOR ESTATE), KURLA - KIROL ROAD, VIDYAVIHAR (WEST),MUMBAI - 400 086

TEL: 9653101920/9136618187FAX : 91-22 - 2516 8948 WEB : www.plaelectro.com INQUIRY: marketing@plaelectro.com

GENERAL: pla@plaelectro.com