

# Model PRSM-1 – Portable Radiation Survey Meter

(Digital Type)



Portable Radiation Survey Monitor Model PRSM-1 is a micro-controller based, portable battery operated instrument for measurement of environmental/ field dose rate of Gamma and X-ray radiations. It is useful for Health Physics applications in Radioisotope Laboratories, Nuclear Power Plants and nuclear medical centres.

Model PRSM-1 employs either an internal or external GM detector for direct readout of either dose rate or counts for selected time interval. The GM Tube is selected considering the intended use of survey meter. PRSM-1, is powered by 4 nos of Ni-MH type rechargeable batteries. It is equipped with Audio Chirper and can be turned ON / OFF as per users choice. 16 X 2 Char LCD provides interactive Menu and Dose Rate Display / Counts.

## Specifications

<b>Detector Probe</b>	: Halogen quenched GM Tube
<b>Ranges</b>	: For Pancake GM Tube - Sensitivity 60 CPS/mR/Hr (upto 100 mR/Hr) For thin Walled GM tube – Sensitivity 18 or 22 CPS /mR/Hr **
<b>Measurement Scale</b>	: User selectable: 0 - 200 mR/Hr , 0 - 2000 $\mu$ SV/Hr , CPS , CPM, Bkg
<b>Accuracy</b>	: $\pm$ 20% of Range
<b>Energy Range</b>	: 100 KeV to 2 MeV
<b>Integration Time (sec)</b>	: Settable as 1 Sec, 5 Sec, 10 Sec
<b>High Voltage</b>	: +300 to + 900 Volts at 0.1 mA internally settable
<b>Display</b>	: 16 x 2 Line display for Dose Rate Indication and HV Indication
<b>Backlit</b>	: User selectable ON or OFF
<b>Backlit Time</b>	: User selectable 1, 2 or 5 minutes
<b>Chirper</b>	: Audio proportional to incident radiation rate. User selectable ON/OFF
<b>Alarm</b>	: Audio alarm when count rate exceeds set dose rate level (mR/Hr)
<b>Indications</b>	: Low battery, Detector failure audio & display indications
<b>Dimensions</b>	: 185 L X 95 B X 40 H mm
<b>Weight</b>	: Approximately 500 gms
<b>Battery</b>	: 4 nos of Ni-MH AA type Duracell (20 Hrs of operational life) with external battery charger

\*\* Sensitivity depends upon selected GM tube

*Due to continuous R&D, specifications are likely to change without notice*

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