

CONTAMINATION CUM RADIATION SURVEY METER PCRM131S

SALIENT FEATURES

- DETECTION OF β & LOW γ FIELDS
- FOUR RANGES
- WIDE METER SCALE - EASY TO READ
- RANGE SELECTION BY PUSH BUTTON
- BATTERY OPERATED
- AUTO POWER OFF TO SAVE BATTERY POWER (optional)



INTRODUCTION

PEA Portable Contamination Monitor Cum Radiation Survey Meter Type PCRM 131S has been designed to monitor nuclear radiation (Beta & Gamma). This instrument is used to measure low level radiation from $100\mu\text{R/hr}$ to 50mR/hr and countrate upto 50000 CPM approx. The detector is an internal end window GM tube. Cabinet has an arrangement to count beta(β) particles.

TECHNICAL SPECIFICATIONS

Radiation Detected Detector	: β (Beta) & γ (Gamma) : End window GM tube $1.5\text{-}2.0\text{mg/cm}^2$, effective dia $\approx 0.36''$, effective length $\approx 1.5''$ (internal)
Measurement range	: 2 ranges : 5 & 50mR/hr
Count rate range	: 2 ranges : 0 – 5000CPM & 0 – 50000CPM
Range Selection	: By push-button switch
Indications	: 4 red LEDs for range & one Green LED for pulse
Accuracy	: $\pm 20\%$ with ^{137}Cs for dose rate
Response Time	: Approx. 10 secs.
Meter	: Analogue meter (65mm wide)
Audio	: Chirp provided
EHT (factory set)	: upto 500V DC
Power	: 5 Alkaline Pencil Cells AA size 1.5V
Auto Power OFF	: After 3 minutes (provided only if mentioned in order)
Batt. Check	: By Push-button
Dimensions	: 160mm x 80mm x 40mm approx.
External Detector Probe	: Available (instead of internal detector)

Note : All optional item at an extra cost.

CAT.NO. PCRM131S / 1105

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