

5. Electronic Personnel Dosimeter

1.	Radiation	X-rays, Gamma Radiation (> 40 keV)
2.	Detector	PN Junction Silicon Semiconductor
3.	Measurement Range	1 to 99999 μ Sv
4.	Energy Dependence	Within \pm 30% from 60 keV to 1.2 MeV
5.	Sensitivity	1 count per μ Sv or better
6.	Readout Accuracy	Within \pm 10% for Cs137, up to 0.5 Sv/hr (Calibration with Cs137)
7.	Dose Rate Range	Within \pm 10% (0.5 Sv/h), Within \pm 20% (5 Sv/h)
8.	Operating Environment	0-45°C or beyond, 90% RH (Non-condensing)
9.	Battery	Coin-type Lithium battery (CR 2450, 3V) or regular battery
10.	Battery Life	Continuous use for 1000 hours (aprox..)
11.	Display	6 digit LCD or more
12.	Dimensions (WxLxD) (in mm)	Max. (35x 125 x 15 mm) excluding clip
13.	Weight (in gm)	Max. 70 gm
14.	Accessories	Extra Batteries (CR 2450, 3V single cell 560 mAh) at least 150 Nos.
15.	Calibration Certificate	Calibrated by Cs-137 source
16.	Test Certificate	Drop Test (1.2 m height), EMI Test (As per EMC product standard)
17.	Warranty	Min. 3 years
18.	Temp. Range	0°C to + 45°C
19.	Spare & service support	Assured supply of spare & maintenance for 10 years

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