

DOSIMETER ($\hat{I}^2$ and $\hat{I}^3$) LD-LDSM-A10



Dosimeter (I^2 and I^3) LD-LDSM-A10 features Ore containing materials for radioactive detection and Cobalt source for electronic accelerator irradiation place radiation detection with Energy ranges of X and Gamma radiation up to 40 KeV to 3.0 MeV and Beta radiation up to 0.5 to 3.0 MeV. Automatic failure detection function, measures gamma and beta radiation dose rate from the background to extra levels with digital LCD backlight display for specifies units of measurement with low battery indication, measurement errors, surface soft and hard beta-particles flux density, threshold level and real time. Magnifying tube has quick detection and localization of gamma and beta radiation sources within seconds and Built-in gamma, beta sensitive Geiger-Muller counter.

Features:

- Ore and Cobalt source materials
- One AAA battery with operating temperature up to -20°C to $+50^\circ\text{C}$
- Built-in gamma, beta sensitive Geiger-Muller counter
- Programmable voice and dose rate alarm with cumulative dose alarm threshold, light and vibration alarm way response within seconds
- Dose rate and cumulative dose measurement function at the same time
- Automatic setting of measurement intervals and ranges with automatic save dose value and automatic failure detection function
- Battery voltage and low battery indication

Applications:

Dosimeter has been widely used in nuclear facilities around environmental radiation detection, I^2 soil surface and agricultural radiation pollution detection, radioactive radiation (beta and gamma) detection and radiation medical treatment places for radiation detection. Also it finds application in ore building materials field for detection of radioactive material and Cobalt source for electronic accelerator irradiation place radiation detection.

Specifications:

Model No.	LD-LDSM-A10
Temperature Range	-20°C to $+50^\circ\text{C}$
Energy dependence	$\leq \pm 25 \%$ (relative to ^{137}Cs)
Relative errors	$\leq \pm 10 \%$ (in 20 u Sv/h)
Detector	GM counter
Protective alarm response time	not more than 3 seconds (in 10 uSv/h)

Dose rate and dose alarm threshold value	full range can be adjusted
Sensitivity	2000 CPM /(mR/h)
Humidity	≤ 85% RH
Power	One AA size battery
External Dimension	125 × 55 × 26 mm
Weight	120 g