

YD-8015D Multi-Function Radiation Survey Meter



The **YD-8015D Multi-Function Radiation Survey Meter** employs a **mica-window GM counter** as its detector, delivering high sensitivity, stable count performance, and a wide measurement range. It provides accurate measurement of α , β , γ , and X-ray radiation. The instrument incorporates a high-speed microprocessor and a **2.0-inch TFT color LCD**, combined with a silicone elastomer keypad for straightforward, user-friendly operation. All technical specifications of this instrument have undergone verification testing by an accredited metrology laboratory.

FEATURES

- **High-speed embedded microprocessor** ensures real-time monitoring data acquisition and status responsiveness;
- **2.0-inch TFT color LCD** with an intuitive operator interface designed for quick familiarization and ease of use;
- **240-second real-time dose rate trending histogram** available for on-screen review;
- **Configurable alarm thresholds** for both dose rate and accumulated dose;
- **Automatic non-volatile storage of 512 dose rate alarm records** — data retained during power loss, with manual alarm log retrieval;
- **Triple alarm modality** — vibration, audible alert, and visual indicator;
- **GM counter fault alert function**;
- **Integrated real-time clock** displaying year, month, and date; clock operation persists when the unit is powered off.

Applications

- Widely applicable to household renovation radiation assessment, medical institutions, disease control and prevention (CDC), environmental protection, metallurgy, petroleum, chemical industry, radiological laboratories, radiation processing, mining, and other settings requiring radiation environment monitoring and radiological protection surveys.

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Specifications

Parameter	Specification
Detector	Mica-window GM counter; effective diameter 44.5 mm; mica window areal density 1.5–2.0 mg/cm ²
Energy Response	50 keV ~ 3 MeV
Detectable Radiation	α , β , X, γ
Measurement Range	Dose rate: 0.05 μ Sv/h ~ 1 mSv/h; Accumulated dose: 0 ~ 999.99 mSv; CPM: 0 ~ 300,000; 0 ~ 500 Bq/cm ²
Display	2.0-inch TFT color LCD
Sensitivity	>360 CPM at 1 μ Sv/h (referenced to ¹³⁷ Cs)
Relative Intrinsic Error	$\leq \pm 10\%$ (¹³⁷ Cs, at 200 μ Sv/h)
Response Time	1 s
Power Supply	3.7 V / 1000 mAh rechargeable lithium battery; real-time battery voltage monitoring with low-battery alert
Operating Environment	Temperature: -10°C to +50°C; Relative humidity: $\leq 95\%$ (at 40°C)
Housing	Plastic (ABS) housing
Weight & Dimensions	Approx. 230 g (excl. battery); 148 × 80 × 30 mm



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