

YD-910 Stationary Neutron Radiation Alarm Monitor



Product Description

The YD-910 stationary neutron radiation detection and alarm device is an instrument designed for continuous neutron radiation measurement. It adopts a high-speed embedded microprocessor and an 8-inch IPS touchscreen LCD display, ensuring real-time monitoring while providing simple and user-friendly operation.

FEATURES

- **8-inch IPS touchscreen LCD** host display that allows viewing of dose rate values from each probe.
- **Real-time monitoring** of neutron radiation levels in the surrounding environment to ensure the safety of personnel and the environment.
- **Data recording:** Real-time recording of neutron radiation level data for long-term tracking and analysis (optional PC software available).
- **Alarm system:** When neutron radiation exceeds the preset safety threshold, audible and visual alarms are triggered to alert operators to take necessary measures.
- Dose rate units are **switchable** ($\mu\text{Gy/h}$, $\mu\text{Sv/h}$).
- One host unit can **simultaneously connect to multiple probes** and can also connect to gamma radiation detectors.
- **Automatic probe identification** function allows convenient probe replacement by staff.
- **Communication:** Standard RS485 interface, with a transmission distance of up to 800 meters.
- **Optional built-in battery**, suitable for vehicle-mounted dose monitoring and situations with unstable power supply.
- **Optional online radiation monitoring system management software**, capable of aggregating dose information from various locations, real-time display and analysis, data plotting, and historical data review.
- **Custom development** available upon request.

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APPLICATIONS

Environmental monitoring, nuclear power plants, laboratories, medical facilities, and various other scenarios requiring environmental neutron radiation monitoring. The instrument helps maintain workplace safety and ensures the effectiveness of radiation protection measures.

Specifications

Parameter	Specification
Detector	^3He proportional counter
Energy Response	Neutron: 0.025 eV – 16 MeV
Detectable Radiation	Neutron
Measurement Range	Dose rate: 0.1 $\mu\text{Sv/h}$ – 100 mSv/h Accumulated dose: 0 – 9999 mSv
Display	8-inch Color touchscreen LCD
Sensitivity	>1.5 cps/ $(\mu\text{Sv/h})$ (^3He detector)
Relative Intrinsic Error	$\leq\pm 15\%$
Response Time	1 s
Operating Environment	Temperature: -25 °C to $+50$ °C Relative humidity: $\leq 95\%$ (at 40 °C)
Power Supply	220V
Housing Material	Body: Aluminum alloy structure Moderator: Polyethylene sphere
Weight & Dimensions	Approx. 9.3 kg

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