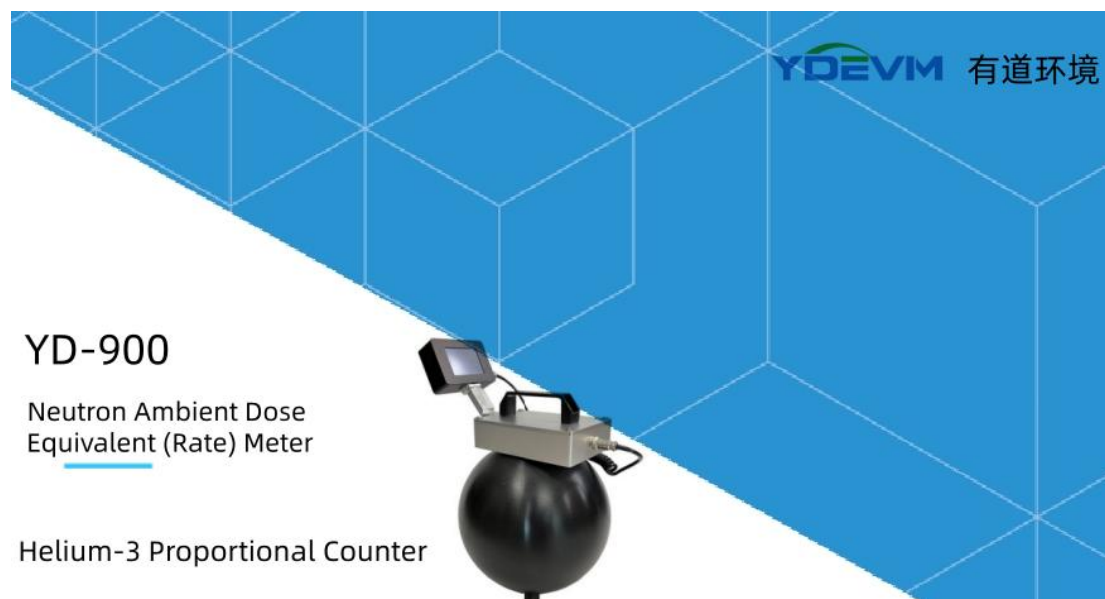


YD-900 Neutron Ambient Dose Equivalent (Rate) Meter



YD-900

Neutron Ambient Dose
Equivalent (Rate) Meter

Helium-3 Proportional Counter

Product Description

YD-900 Neutron Ambient Dose Equivalent (Rate) Meter adopts a highly sensitive ^3He proportional tube as its detector. It offers outstanding neutron measurement sensitivity and superior gamma suppression performance, along with a compact form factor, light weight, intelligent functionality, and easy operation. The neutron detector can be configured as a portable neutron ambient dose equivalent rate meter and a stationary neutron radiation alarm monitor.

Features

- High-speed embedded microprocessor ensures real-time monitoring data and status updates.
- The neutron probe utilizes a ^3He proportional counter, providing reliable and stable measurement data.
- An internal detector can be optionally equipped with a Geiger-Müller (G-M) tube for gamma radiation measurement.
- Color touchscreen LCD with both Chinese and English user interfaces, designed for an intuitive, easy-to-learn, and user-friendly experience.
- Dose rate alarm records can be manually reviewed; alarm thresholds are user-settable; storage capacity for up to 4,000 alarm data sets.
- Built-in real-time clock that displays the current year, month, and day; clock operation is unaffected by power loss.

Applications

This instrument is suitable for neutron radiation monitoring in a variety of settings, including environmental protection, chemical industry, petroleum, medical, import/export commodity

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inspection, accelerators, neutron sources, as well as other security screening, border control, and customs inspection scenarios where neutron radiation detection is required.

Specifications

Parameter	Specification
Detector	^3He proportional counter (Optional: metal G-M tube)
Energy Response	Neutron: 0.025 eV – 16 MeV (^3He detector) γ : 60 keV – 3 MeV (G-M detector)
Detectable Radiation	Neutron; (Optional: γ detector)
Measurement Range	Dose rate: 0.1 $\mu\text{Sv/h}$ – 100 mSv/h Accumulated dose: 0 – 9999 mSv
Display	3.5 Color touchscreen LCD
Sensitivity	>1.5 cps/ $(\mu\text{Sv/h})$ (^3He detector) >2.0 cps/ $(\mu\text{Sv/h})$ (GM) (relative to ^{137}Cs)
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	8.4 V rechargeable lithium battery
Housing Material	Body: Aluminum alloy structure Moderator: Polyethylene sphere
Weight & Dimensions	Approx. 9.3 kg; 351 × 251 × 246 mm

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