NOVONUCLEAR PRIVATE LIMITED

Semiconductor Personal Dosimeter SPD-9300

SPD-9300 is a precise radiation measuring instrument that not only instantly displays radiation data to the user, but also transmits various exposure-related data to an exposure management system through RF communication. This enables systematic management of radiation exposure.

By applying the basic radiation protection principle **(ALARA)**, this product minimizes radiation exposure of workers operating in radiation working environments.

The switch-mode design allows operation in either **System Type**, where the device is used together with radiation exposure management systems in atomic power plants and nuclear facilities, or **Stand-Alone Type**, where the device operates independently.

Applications:

Nuclear facilities

Non-Destructive Testing (NDT)

Hospitals and medical facilities

Anti-terrorism and security operations

Industrial applications

Emergency services (e.g., 119 Rescue)

National defense

Environmental radiation monitoring

Technical Specifications:

Radiological Specifications

Applicable Standard: IEC 61526:2010

Detected Radiation: X-ray and Gamma ray

Detector Type: Semiconductor

Display Units

Dose: Sv or rem (µSv, mSv, Sv, µrem, mrem, rem)

Dose Rate: Sv/h or rem/h (µSv/h, mSv/h, Sv/h, µrem/h, mrem/h)

Linearity

Dose: ±10%

Dose Rate: ±15% (up to 1 Sv/h)

Accuracy

±10% (^{137}Cs, at 10 mSv/h)

Measurement Range

Dose: 0.1 µSv to 10 Sv (0.01 mrem to 1000 rem)

Dose Rate: 0.1 µSv/h to 1 Sv/h (0.01 mrem/h to 100 rem/h)

Display Range

Dose: 1 µSv to 10 Sv (0.1 mrem to 1000 rem)

Dose Rate: 1 µSv/h to 1 Sv/h (0.1 mrem/h to 100 rem/h)

Energy Response

X-ray and Gamma energy range: 30 keV to 6 MeV

Energy measurement range: 50 keV to 3 MeV (−29% to +30%)

Angular Response

±20% (^{137}Cs, 0° to 60°)

Environmental Specifications:

Operating Temperature: −10 °C to 50 °C

Humidity: 40% to 90% RH at 35 °C

Storage Temperature: −25 °C to 50 °C

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