

Electronic Personal Dosimeter

NRF50

x, y



All-in-one dosimeter

Emergency call button

Large backlit LCD display

**Integrated communication
and telemetry function**

Specification

Versatile and all-in-one, the NRF5 Series dosimeters can be used stand-alone or integrated into a dosimetry or remote dosimetry system.

They can be used to reinforce the protection of workers in controlled areas or areas likely to be exposed to ionising radiation.

They are perfectly suited to the requirements and applications of:

- Nuclear power plants and fuel cycle,
- Decommissioning activities,
- Military defence and civil security: Protection of first responders,
- Research laboratories and education,
- Particle accelerators,
- Industrial activities and non-destructive testing,
- Medical environment (radiological platform).

Reference Standard	IEC61526 Ed.3.0 and ANSI N42.20
Radiation measured	Hp(10) - X-rays and Gamma (γ) radiations
Detector	Silicon semiconductor
Measurement Range	Dose: 1 μSv to 10 Sv
	Dose rate: 0,1 μSv/h to 10 Sv/h
Display Range	Dose: 1 μSv to 10 Sv
	Dose rate: 0 μSv/h to 10 Sv/h
Energy range	30 keV to 7 MeV
Energy Response	±20% (50 keV to 6 MeV)
Angular Response	±20% (¹³⁷ Cs, 0° to 75°); ±50% (²⁴¹ Am, 0° to 75°)
Accuracy	±10% (¹³⁷ Cs)
Dose Rate Linearity	±10% (¹³⁷ Cs)
Display	Dot LCD (128x48); View area: 43,5mm x 16,3mm
LED	Flash red Led x 3; Auxiliary Led x 3 (green, orange, red)
Buzzer	Piezzo-electric buzzer (90 to 100 dB @ 30cm)
Communication	USB; Infrared; Electromagnetic induction; Bluetooth; 900Mhz radio or Wi-Fi (selectable)
USB Interface	USB2.0 micro-B (Use for power supply and communication)
Data Storage	Trend Data (historical data): Up to 4000 (Date/time, Dose, Dose rate, Status) Entry/Exit data: Up to 1000
Battery	Primary AA (LR6) battery x2
Battery Life	Continuous use 2500 hours (without alarm/communication)
Operating Temperature	-10°C to +50°C
Operating Humidity	≤ 95%
Waterproof	IP65/67
EMC	MIL STD 461F
Dimensions	60 x 105 x 29 mm
Weight	≤ 100g (without battery); approx 170g (with 2 battery)
Other Features	Vibrator; Call Button (Emergency alarm); Thermistor (for temp. Compensation) External Barrely via USB-micro B port; Accelerometer
Accessory Functions	Stopwatch; Notepad (32 characters)



Emergency call button



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