

**Electronic Personal Dosimeter** 



X,  $\gamma$ , neutron



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 sed
- 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		
	Hp(10) - Neutron		
Detector	Silicon semiconductor		
Measurement Range	γ(X) rays:	Dose	1 µSv to 10 Sv
		Dose rate	0,1 µSv/h to 10 Sv/h
	Neutron	Dose	10 µSv to 10 Sv
		Dose rate	1 μSv/h to 10 Sv/h
Display Range	γ (X) rays:	Dose	1 µSv to 10 Sv
		Dose rate	0 µSv/h to 10 Sv/h
	Neutron	Dose	1 µSv to 10 Sv
		Dose rate	0 µSv/h to 10 Sv/h
Energy Range	γ(X) rays:		30 keV to 7 MeV
	Neutron		0,025 eV to 15 MeV
Energy Response	γ(X) rays		±20% (50 keV to 6 MeV)
	Neutron		±50% (250 keV to 4,5 MeV)
Angular Response	γ(X) rays		±20% ( <sup>137</sup> Cs, 0° to 75°); ±50% ( <sup>241</sup> Am, 0° to 75°)
	Neutron		±30% ( <sup>241</sup> Am, 0° to 75°)
Accuracy	γ(X) rays		±10% ( <sup>137</sup> Cs)
	Neutron		±15% ( <sup>252</sup> Cf or <sup>241</sup> Am-Be)
Dose Rate Linearity	γ(X) rays		±10% ( <sup>137</sup> Cs)
	Neutron		±20% ( <sup>252</sup> Cf or <sup>241</sup> Am-Be)
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 Barrety via USB-micro B port; Accelerometer		
Accessory Functions	Stopwatch; No	tepad (32 characters)	)











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