

Electronic Personal Dosimeter



X, γ , 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% (¹³⁷ Cs, 0° to 75°); ±50% (²⁴¹ Am, 0° to 75°)
	Neutron		±30% (²⁴¹ Am, 0° to 75°)
Accuracy	γ(X) rays		±10% (¹³⁷ Cs)
	Neutron		±15% (²⁵² Cf or ²⁴¹ Am-Be)
Dose Rate Linearity	γ(X) rays		±10% (¹³⁷ Cs)
	Neutron		±20% (²⁵² Cf or ²⁴¹ 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))











FUJI ELECTRIC FRANCE S.A.S.

46, rue Georges Besse - Zl du Brézet 63039 Clermont-Ferrand Cedex 2 - France Tel. France 04 73 98 26 98 - Fax. 04 73 98 26 99 Tel. international +33 4 73 98 26 98 - Fax. +33 4 73 98 26 99 Email : sales.dpt@fujielectric.fr Web :www.fujielectric.fr Fuji Electric cannot be held responsible for any errors in our catalogues, brochures or other printed media. Fuji Electric reserves the right to modify its products without notice. This also applies to the products ordered, if the modifications do not alter the specifications substantially. The registered marks and names which appear in this document are the property of their respective depositors. All rights reserved.