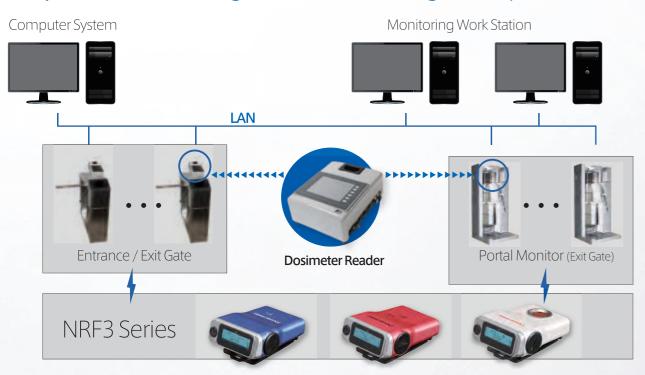
Sample of Hardware Configuration of Dose Management System



Dose Management Software for Small Size System

Functions

- Personal Management
- Access Control
- RWP Management
- System Management



Personal Management Screen

Dosimeter Reader

Reads entry/exit information, and writes the setting information received from computer system into dosimeter.



Specifications				
Display	5.7 / 8.4 inch color LCD			
Communication	Ethernet (Computer system) Digital I/O (Portal monitor, Turnstile, etc) Infrared (Dosimeter)			
Dimensions	200(W) x 250(H) x 105(D) mm) x 4.1(D) in)			
	8.4" LCD type (9.8(W) x 11.2(H	250(W) x 285(H) x 115(D) mm H) x 4.5(D) in)		
Weight	71	2.8 kg approx. (6.2 lb approx.) 4.0 kg approx. (8.8 lb approx.)		
Power Supply	100 to 240 V AC			

CAUTION

Read the instruction manual provided before using this product, to make sure you operate it safely.



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Information in this sheet is subject to change without notice due to the product improvement.

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Innovating Energy Technology

Electronic Personal Dosimeter

NRF3 Series



Compact and Lightweight
Long Battery Life

NRF3 Series specifications

		NRF30	NRF31	NRF34	NRF40		
Model/Appearand	ce						
Radiation Measure	ed	Gamma (X) rays	Gamma (X) rays and Neutron	Gamma (X) rays and Beta rays	Gamma (X) rays		
Detector		Silicon semiconductor		niconductor			
Measurement Range		1 μ Sv to 9.999 Sv (0.1 mrem to 999.9 rem) 1 μ Sv/h to 9.999 Sv/h (0.1 mrem/h to 999.9 rem/h) for dose measurement					
Display Range Accumulated Dose		1 μSv to 9.999 Sv (0.1 mrem to 999.9 rem)					
Display Natige	Dose Rate*	1 μSv/h to 9.999 Sv/h (0.1 mrem/h to 999.9 rem/h)					
A		$\leq \pm 10 \%$ (0.1 mSv to 9.999 Sv (10 mrem to 999.9 rem), 137 Cs)	Gamma(X) rays : ≤ ± 10 % (0.1 mSv to 9.999 Sv (10 mrem to 999.9 rem), ¹³⁷ Cs)	Gamma(X) rays : $\leq \pm 10 \%$ (0.1 mSv to 9.999 Sv (10 mrem to 999.9 rem), ¹³⁷ Cs)	$\leq \pm 10 \%$ (0.1 mSv to 9.999 Sv (10 mrem to 999.9 rem), 137 Cs)		
Accuracy			Neutron : $\leq \pm 15 \%$ (0.5 mSv to 9.999 Sv (50 mrem to 999.9 rem), ²⁵² Cf)	Beta rays : ≤ ± 15 % (0.1 mSv to 9.999 Sv (10 mrem to 999.9 rem), ⁹⁰ Sr/ ⁹⁰ Y)			
Energy Range		30 keV to 6 MeV	Gamma(X) rays : 30 keV to 6 MeV Neutron : 0.025 eV to 15 MeV	Gamma(X) rays : 30 keV to 6 MeV Beta rays : 0.2 MeV to 0.8 MeV (Mean energy)	30 keV to 6 MeV		
	\leq \pm 20 % (50 keV to 6 MeV, ¹³⁷ Cs reference)	Gamma(X) rays : $\leq \pm 20 \%$ (50 keV to 6 MeV, ¹³⁷ Cs reference)	Gamma(X) rays : $\leq \pm 20 \%$ (50 keV to 6 MeV, ¹³⁷ Cs reference)	\leq \pm 20 % (50 keV to 6 MeV, ¹³⁷ Cs reference)			
Energy Response			Neutron: $\leq \pm 50 \%$ (250 keV to 4.5 MeV, ²⁴¹ Am-Be reference)	Beta rays : $\leq \pm 30 \%$ (0.2 MeV to 0.8 MeV (Mean energy), 90 Sr/ 90 Y reference)			
Angular Response		\leq \pm 20 % (Up to \pm 60 degree vertical and horizontal, ¹³⁷ Cs) \leq \pm 50 % (Up to \pm 60 degree vertical and horizontal, ²⁴¹ Am) \leq \pm 30 % (All around horizontal, ¹³⁷ Cs, free air)	Gamma(X) rays : $\leq \pm 20\%$ (Up to ± 60 degree vertical and horizontal, ¹³⁷ Cs) $\leq \pm 50\%$ (Up to ± 60 degree vertical and horizontal, ²⁴¹ Am) $\leq \pm 30\%$	Gamma rays: $\leq \pm 20\%$ (Up to ± 60 degree vertical and horizontal, ¹³⁷ Cs) $\leq \pm 50\%$ (Up to ± 60 degree vertical and horizontal, ²⁴¹ Am) $\leq \pm 30\%$	$\leq \pm 20 \%$ (Up to ± 60 degree vertical and horizontal, ¹³⁷ Cs) $\leq \pm 50 \%$ (Up to ± 60 degree vertical and horizontal, ²⁴¹ Am) $\leq \pm 30 \%$ (All around horizontal, ¹³⁷ Cs, free air)		
			(All around horizontal, ¹³⁷ Cs, free air) Neutron: ≤±30% (Up to ±75 degree vertical and horizontal, ²⁴¹ Am-Be)	(All around horizontal, 137 Cs, free air) Beta rays: $\leq \pm 30 \%$ (Up to ± 60 degree vertical and horizontal, 90 Sr/ 90 Y)			
Dose Rate Linearit	<i>y</i>	$\leq \pm 10 \%$ (0.1 mSv/h to 9.999 Sv/h (10 mrem/h to 999.9 rem/h), ¹³⁷ Cs)	Gamma(X) rays : $\leq \pm 10 \%$ (0.1 mSv/h to 9.999 Sv/h (10 mrem/h to 999.9 rem/h), ¹³⁷ Cs) Neutron : $\leq \pm 20 \%$ (0.5 mSv/h to 9.999 Sv/h (50 mrem/h to 999.9 rem/h), ²⁵² Cf)	Gamma(X) rays : $\leq \pm$ 10 % (0.1 mSv/h to 9.999 Sv/h (10 mrem/h to 999.9 rem/h), ¹³⁷ Cs) Beta rays : $\leq \pm$ 20 % (0.1 mSv/h to 9.999 Sv/h (10 mrem/h to 999.9 rem/h), ⁹⁰ Sr/ ⁹⁰ Y)	$\leq \pm 10\%$ (0.1 mSv/h to 9.999 Sv/h (10 mrem/h to 999.9 rem/h), 137		
Display		LCD (with backlight)					
Alarm Volume				dB (at 30cm)			
Communication M	lethod			mmunication			
Operating Temper	ature	- 20 °C to 50 °C (- 4 °F to 122 °F)					
Operating Humidi	ty	35 % to 95 %RH (Non-condensing)					
Power Supply		Primary Battery (CR123A) x 1					
Battery Life		2880 hours (without alarm/ communication)					
Dimensions		60 (W) x 33 (D) x 78 (H) mm (2.4(W) x 1.3(D) x 3.1(H) in)	60 (W) x 33 (D) x 78 (H) mm (2.4(W) x 1.3(D) x 3.1(H) in)	60 (W) x 33 (D) x 78 (H) mm (2.4(W) x 1.3(D) x 3.1(H) in)	62 (W) x 35 (D) x 82 (H) mm (2.4(W) x 1.4(D) x 3.2(H) in)		
Weight		100 g approx. (0.22 lb approx.)	120 g approx. (0.26 lb approx.)	105 g approx. (0.23 lb approx.)	115 g approx. (0.25 lb approx.)		