

DOSE_i

DOSE_i is a small and lightweight electronic personal dosimeter which can be used easily.

Electronic Personal Dosimeter



FEATURES

- Measures dose and dose rate
- Water and noise resistant enables high reliability
- Easy-to-read organic EL display and various alarm functions
- Settings are possible in one unit
- Pocket-sized and lightweight



SPECIFICATIONS

1. Type	DOSEi- γ for gamma (X) rays	Dosei-n γ for gamma (X) and neutron rays	
2. Detector	Silicon semiconductor detector		
3. Radiation detected	Gamma (X) rays	Gamma (X) rays	Neutron rays
4. Energy range	0.001 mSv to 999.9 mSv 0.001 mSv/h to 999.9 mSv/h	0.001 mSv to 999.9 mSv 0.001 mSv/h to 999.9 mSv/h	0.1 mSv to 999.9 mSv 0.1 mSv/h to 999.9 mSv/h
5. Accuracy	$\leq \pm 10\%$ (0.01 to 999.9 mSv, ^{137}Cs ref.)	$\leq \pm 10\%$ (0.01 to 999.9 mSv, ^{137}Cs ref.)	$\leq \pm 40\%$ (0.1 to 999.9 mSv, $^{241}\text{Am-Be}$ ref.)
6. Linearity of dose equivalent rate	$\leq \pm 10\%$ (up to 0.1 Sv/h)	$\leq \pm 10\%$ (up to 0.1 Sv/h)	N/A
7. Measurement range	35 keV to 3 MeV	35 keV to 3 MeV	0.025 eV to 15 MeV
8. Display	4 digit liquid display (0.001 to 9999), switching and indicating function of dose rate low battery indication, overflow indication when exceeding measurement range		
9. Alarm setting	Settable for every 0.01 mSv		Settable for every 0.1 mSv
10. Alarm output	Alarm sound (large, medium, small, OFF sound volume settable), alarm lamp blinking, vibrator (optional)		
11. Data storage	Up to 600 trend data records (for only gamma rays)*, with non-volatile memory		
12. Test function	When switch is ON, operation check is available with alarm output and liquid display		
13. Operating humidity	$\leq 90\%$ RH (non condensing)		
14. Power source	Coin-type lithium battery (CR2450)		
15. Battery life	720 hours or more (without alarm indication)	240 hours or more (without alarm indication)	
16. Size	Approx. 30 (W) x 110 (H) x 12 (D) mm Approx. 1.8 (W) x 4.3 (H) x 0.47 (D) in.	Approx. 30 (W) x 140 (H) x 12 (D) mm Approx. 1.8 (W) x 5.5 (H) x 0.47 (D) in.	
17. Mass	Approx. 60 g / Approx. 0.13 lb	Approx. 80 g / Approx. 0.17 lb	
18. Communication	Infrared communication (communication cable and software are optional)		
19. Other	Water resistant (JIS protection grade 4), noise resistant (mobile phones ,etc.)		

*) Utilizing trend function requires infrared communication cable and software (optional).

⚠ CAUTION

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

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