

DOSEi

Electronic Personal Dosimeter

DOSEi is a small and lightweight electronic personal dosimeter which is easy to use.

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

TYPE	DOSEi-γ for gamma (X) rays	DOSEi-nγ for gamma (X) and neutron rays	
Detector	Silicon semiconductor detector	Silicon semiconductor detector	
Radiation detected	Gamma (X) rays	Gamma (X) rays	Neutron rays
Energy range	35 keV to 3 MeV	35 keV to 3 MeV	0.025 eV to 15 MeV
Accuracy	≤ ±10 % (0.01 to 999.9 mSv, ¹³⁷ Cs ref.)	≤ ±10 % (0.01 to 999.9 mSv, ¹³⁷ Cs ref.)	≤ ±40 % (0.1 to 999.9 mSv, ²⁴¹ Am-Be ref.)
Linearity of dose equivalent rate	≤ ±10 % (up to 0.1 Sv/h)	≤ ±10 % (up to 0.1 Sv/h)	N/A
Measurement 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

(Continued)

Specifications (continued)

TYPE	<i>DOSEi-γ for gamma (X) rays</i>	<i>DOSEi-nγ for gamma (X) and neutron rays</i>	
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		
	Gamma (X) rays	Gamma (X) rays	Neutron rays
Alarm setting	Settable for every 0.01 mSv		Settable for every 0.1 mSv
Alarm output	Alarm sound (large, medium, small, OFF sound volume settable), alarm lamp blinking, vibrator (optional)		
Data storage	Up to 600 trend data records (for only gamma rays)*, with non-volatile memory		
Test function	When switch is ON, operation check is available with alarm output and liquid display		
Operating humidity	≤ 90 % RH (non condensing)		
Power source	Coin-type lithium battery (CR2450)		
Battery life	720 hours or more (without alarm indication)	240 hours or more (without alarm indication)	
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.	
Mass	Approx. 60 g / Approx. 0.13 lb	Approx. 80 g / Approx. 0.17 lb	
Communication	Infrared communication (communication cable and software are optional)		
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.

Specifications are subject to change without notice.

