

Alarm equipped personal dosimeter

DOSE i series

The Dose i series are electronic personal dosimeter to measure external exposure dose for workers and visitors in radiation area.

Integral dose of exposure and dose equivalent rate will be displayed in real time. Proper alarm and stand-by alarm are settable to allow users efficiently to maintain exposure control by alarm and beeping.



Features

- Easy-to-read color display
- Wide range of measurement
- Excellent operability
- Compact and lightweight

Specifications

Model	CPXANRFA-30 (DOSE i - γ)	CPXANRFA-31 (DOSE i - nγ)	
Detector		Silicon semiconductor detector	
Radiation detected	Gamma (X)-rays	Gamma (X)-rays	Neutron
Measurement range	0.001mSv to 999.9mSv 0.001mSv/h to 999.9mSv/h	0.001mSv to 999.9mSv 0.001mSv/h to 999.9mSv/h	0.1mSv to 999.9mSv 0.1mSv/h to 999.9mSv/h
Margin of indication error	±10% or less (0.01 to 999.9mSv, ¹³⁷ Cs basis)	±10% or less (0.01 to 999.9mSv, ¹³⁷ Cs basis)	±40% or less (0.01 to 999.9mSv, ²⁴¹ Am-Be basis)
Dose equivalent rate linearity	±10% or less (0.1Sv/h)	±10% or less (0.1Sv/h)	—
Energy range	35keV to 3MeV	35keV to 3MeV	0.025keV to 15MeV
Indication	4 digits LCD (0.001 to 9999), Switchable dose rate indication, Low battery indication, Overflow indication when exceeding over the range		
Alarm setting	Settable in units of 0.01 mSv		Settable in units of 0.01 mSv
Alarm output	Alarm beeping (selectable in Large, Mid, Small, OFF) / Alarm lamp / Vibration (optional)		
Data storage function	600 trend data (when gamma-rays only)*, Non-volatile memory		
Test function	During the power ON, operation can be checked with alarm output and LCD indication		
Operating humidity	Relative humidity: 90% or less (without dew condensation)		
Power supply	Coin-type Lithium Battery (CR2450)		
Size and mass (except protruding portion)	30(W) × 12(D) × 110(H)mm Approx.60g (including batteries)	30(W) × 12(D) × 140(H)mm Approx.80g (including batteries)	
Communication function	Infrared communication (communication cable and software are optional)		
Others	Waterproofed (JIS protection grade 4) / Noise-proofed(cell phones, etc)		

*Infrared communication cable and software (optional) are necessary for trend function.