



## DOSIMETER

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Dosimeter is a device that measures either directly or indirectly, the quantities exposure, absorbed dose or equivalent dose, or their time derivatives (rates), or related quantities of ionizing radiation.

Used in Nuclear radiation detection, Soil surface radiation pollution detection, Agricultural radiation pollution detection, Radioactive detection, Personal dose monitoring alarm, Industrial X-gamma NDT radiation detection, Radioactive radiation laboratory detection.

Also known as Radiation Dosimeter.

## BDOS-101 DOSIMETER



Use efficient import MICA geiger detector.

Dose rate alarm threshold setting, super threshold alarm.

Flash and sound pulse frequency indicating radiation intensity.

Sound, vibration, light real-time clock alarm function.

Ultra-low power design battery real-time instructions.

Menu operation interface.

Unit shown CPM, CPS, Bq/cm<sup>2</sup>,  $\mu$ Gy/h,  $\mu$ Sv/h.

Adopts analog and digital display scale, more clear and intuitive.

Slide out detector protection and unique ray shielding plate.

## SPECIFICATIONS

Model	BDOS-101
Temperature range	- 40°C to 50°C
Humidity range	Relative humidity of 90% or less (40°C)
Measuring range	Count rate 0~500000 CPM, 0~8000 CPS
Radiation equivalent dose rate(EDR)	0.01 - 10000 $\mu$ Sv/h
Agent sensors	Mica geiger counter, diameter: 45 mm
Energy ranges of measurement	25 KeV - 7 MeV
Detection efficiency	Sr - 90 (546 KeV, 2.3 MeV beta Max) is about 75% of Am - 241 (5.5 MeV alpha) of about 36%
Acuity	3500 CPM/mR/h (for Cs - 137)
Instrument background	80 CPM or less
Basic relative errors	15% or less
Power	5 batteries or rechargeable batteries 2 section
Power consumption	The machine current 8 ma or less
Instrument (size and weight)	160x85x38 mm
0.5 kg	Portable box (size and weight)
260x206x126 mm	0.9 kg

# 100 DOSIMETER



Large area digital LCD display backlight.  
 Built-in gamma, beta sensitive Geiger-Muller counter.  
 Simultaneously dose rate and cumulative dose measurement.  
 Automatic setting of measurement intervals and ranges.  
 The maximum dose rate values keep function.  
 Automatic setting of measurement intervals and ranges.  
 Automatic save dose value.  
 Programmable dose rate alarm and cumulative dose alarm threshold.  
 Programmable voice, light and vibration alarm way.  
 Battery voltage and low battery indication.  
 Automatic failure detection function.

## SPECIFICATIONS

Model	BDOS-102	BDOS-103
Temperature range	-20°C ~ +50°C	-
Radiation equivalent dose rate(EDR)	0.01 µSv/h - 100 mSv/h (137Cs)	
Radiation equivalent dose(ED)	0.01 uSv - 9999 Sv (137Cs)	
Relative errors of energy dependence(137Cs)	Less than or equal ±25%	
Basic relative errors	Less than or equal ±10% (in 20 uSv/h)	
Adjustable range of alarm threshold level relative to radiation dose rate	Full range can be adjusted	
Adjust able range of alarm threshold level relative to radiation dose	Full range can be adjusted	
Response time of alarm	Not more than 3 seconds (in10 uSv/h)	
X and Gamma radiation	40 Kev - 3.0 Mev	
Display unit		
Radiation equivalent dose rate (EDR)	uSv/h, mSv/h, Sv/h automatic conversion	
Radiation equivalent dose (ED)	uSv, mSv, Sv automatic conversion	
Power	One AAA battery	
Dimension(LxWxH)	80x55x15 mm	125x55x26 mm
Weight	80 g	120 g
Beta radiation	-	0.5 - 3.0 MeV



BDOS-102



BDOS-103



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