

# DOSIMETER DOS13- BG



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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.

## DOS13-BG 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	DOS13-BG
Radiation equivalent dose rate(EDR)	0.01 $\mu$ Sv/h – 100 mSv/h (137Cs)
Radiation equivalent dose(ED)	0.01 $\mu$ Sv – 9999 Sv (137Cs)
Relative errors of energy dependence(137Cs)	Less than or equal $\pm$ 25%
Basic relative errors	Less than or equal $\pm$ 10% (in 20 $\mu$ Sv/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 $\mu$ Sv/h)
X and Gamma radiation	40 Kev – 3.0 Mev
Beta radiation	0.5 – 3.0 MeV
Display unit	
Radiation equivalent dose rate (EDR)	$\mu$ Sv/h, mSv/h, Sv/h automatic conversion
Radiation equivalent dose (ED)	$\mu$ Sv, mSv, Sv automatic conversion
Power	One AAA battery
Dimension(LxWxH)	125x55x26 mm
Weight	120 g

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