BIOLAB

PRODUCT CATALOG

DOSIMETER BDOS-103

CE ISO9001 CERTIFIED

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DOSIMETER BDOS-103

X-γ AND β RADIOMETER DOSIMETER

It is a γ and β radiation measuring instrument. Build in a high sensitive gamma beta Geiger-Muller counter. With fast response, wide measuring range characteristics.Using for measuring X-ray , γ and β radiation. It's a multipurpose radiation dose rate measuring instrument.

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.
Purpose for use:

SPECIFICATIONS

Model	BDOS-103
Measurement Ranges	
- dose equivalent rate (137Cs)	0.01 μSv/h ~ 10 mSv/h
- dose equivalent (137Cs)	0.01 μSv ~ 9999 Sv
Energy Ranges	X and Gamma radiation: 40 KeV ~ 3.0 MeV
Beta Radiation	0.5 ~ 3.0 MeV
Energy Dependence	≤ ±25% (relative to 137Cs)
Relative Errors	≤ ±10% (in 20 μSv/h)
Dose Rate and Alarm Threshold	Full range adjustable
Protective Alarm Response Time	≤ 3 seconds (in 10 μSv/h)
Display Unit	
- Dose Rate	μSv/h, mSv/h, Sv/h automatic conversion
- Dose	μSv, mSv, Sv automatic conversion
Battery	One AAA battery
Operating Temperature Range	-20°C ~ +50°C
Weight and Dimensions	120 g, 125 x 55 x 26 mm
Alt Name	X-γ and β radiometer dosimeter

FEATURES

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.

Purpose for use:
Measurement of gamma radiation ambient dose equivalent rate;
Measurement of gamma radiation ambient dose equivalent;
Measurement of surface beta-particles flux density;
Measurement of ambient dose equivalent accumulation time;
Real time measurement (clock).

APPLICATIONS

Nuclear facilities around environmental radiation detection
The soil surface radiation pollution detection
Agricultural radiation pollution detection
Ore, building materials radioactive detection
Personal dose monitoring alarm
Industrial X, gamma NDT radiation detection
Radiation medical treatment place radiation detection
Cobalt source, electronic accelerator irradiation place radiation detection
Radioactive radiation laboratory detection

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