BioLAB

PRODUCT CATALOG

DOSIMETER

CE ISO9001 CERTIFIED

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DOSIMETER BFV1C1

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	BFV1C1
Old 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

DOSIMETER BFV1B1

SURFACE CONTAMINATION MONITOR

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.

Digital LED display
Back Light Compensation
Audio and shake alarm of exceeded programmed threshold levels
Programming of alarm threshold level relative to radiation dose rate
Programming of the four alarm models:audio,shake,audio
Display unit: CPM, CPS, Bq/cm2, mu Gy/h, mu Sv/h.

SPECIFICATIONS

Model	BFV1B1
Old Model	BDOS-101
Sensitivity	Sensitive to ALPHA, BETA, X-RAY, GAMMA
Measurement Ranges	Counting rate: 0~500000 CPM, 0~8000 CPS; Radiation dose rate: 0.01~1000 μSv/h
Detector	Pancake GM tube, Φ 45 mm
Energy Ranges of Measurement	25 KeV ~ 7 MeV
Detection Efficiency	Sr-90 (546 keV, 2.3 MeV β max): 75%; Am-241 (5.5 MeV α): 36%
Sensitivity (Cs-137)	3500 CPM/mR/h (Cs-137)
Battery Type	AA battery x 2
Instrument Dimensions and Weight	160 x 85 x 38 mm, 0.5 kg
Instrument Container Dimensions and Weight	260 x 206 x 126 mm, 0.9 kg
Alt Name	Surface Contamination Monitor

APPLICATIONS

Environmental protection bureau,public health bureau,inspection and quarantine bureau,radiology department of hospital,radiation laboratory,
Radiation in industrial radiation accelerator and gamma Radiation in industrial
Nuclear power station
Other radioactive area

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