



EPD-27

DoseG and DoseGX

Electronic Personal Dosimeter

Features

- Scintillator-based detectors with a silicon photomultiplier.
- Sound, light, and vibration alarms when programmed threshold levels exceeded.
- Threshold level values can be programmed manually or during information exchange with the UAS or the USB/IrDA adapter.
- Storage of dose accumulation history in the nonvolatile memory.
- Wide energy measuring ranges from 12 keV to 10 MeV (DoseGX model).
- Infrared port for transferring the dose accumulation history and event history from the dosimeter to the personal computer, as well as for setting up the dosimeter.
- Continuous self-testing of detector during its operation.



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DoseG and DoseGX Purpose of Use

- Measurement of gamma and X-ray radiation individual dose equivalent (DE).
- Measurement of gamma and X-ray radiation individual dose equivalent rate (DER).
- Monitoring of time spent in the control zone.



Specification

MEASUREMENT RANGES AND MAIN RELATIVE ERRORS:	UNIT OF MEASUREMENT	STANDARDIZED VALUE
Measurement ranges and main relative errors:		
DoseG		
Individual gamma radiation equivalent dose rate HP(10)	$\mu\text{Sv/h}$	1...10 000 000; (1...10 $\mu\text{Sv/h}$: $\pm 20\%$; 10 $\mu\text{Sv/h}$...1 Sv/h: $\pm 15\%$)
Individual gamma radiation equivalent dose HP(10)	μSv	0.1...10 000 000; $\pm 15\%$
Energy range of detected gamma radiation and energy dependence	MeV	0.05...10.0; (0.05...1.25: $\pm 20\%$; 1.25... 10: $\pm 40\%$.)
DoseGX		
Individual gamma radiation equivalent dose rate H _P (10)	$\mu\text{Sv/h}$	1...10 000 000; (10 $\mu\text{Sv/h}$ to 1 mSv/h: $\pm 20\%$; 1 mSv/h to 100 mSv/h: $\pm 15\%$; 100 mSv/h to 10 Sv/h: $\pm 15\%$)
Individual gamma and X-ray radiation equivalent dose H _P (10)	μSv	0.1...10 000 000; $\pm 15\%$
Energy range of detected X-ray	keV	12...20

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NAME	UNIT OF MEASUREMENT	STANDARDIZED VALUE
Recording resolution of dose accumulation history in the nonvolatile memory	minutes	5...255
Time of data storage in the nonvolatile memory		not less than 10 years
Data exchange rate through infrared port	bit/	38 400
Positive data exchange distance between the dosimeter and the infrared port adapter	m	not more than 0.3
Continuous operation when powered from new batteries or from fully-charged rechargeable batteries under normal background radiation (not more than 0.3 μ Sv/h), switched off alarm system and LCD off	hours	170
Operating temperature range	°C	-20...+50
Ingress protection rating	IP	IP67
Weight	kg	0.11
Dimensions	mm	84.5 x 55.0 x 24.5

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