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Radiation measurements for your safety

ELECTRONIC DOSIMETER PM1211

INDICATION OF THE ESTIMATED SAFE STAY TIME CLOSE TO THE RADIATION SOURCE

Purpose

A new gamma-radiation dosimeter PM1211 is designed to replace a well-proven electronic dosimeter PM1203M.
Compared with its predecessor, PM1211 bears more sophisticated technical parameters, additional modern functions, broad service capabilities of its modifications and renovated external view.
The instrument combines high sensitivity and usability that provides an opportunity to use it successfully by both professionals and ordinary users.

Functions

- Continuous measurement of ambient dose equivalent rate and dose equivalent of gamma radiation
- Indication of the automatically calculated time of safe stay next to the detected radiation source with alternate display of the current dose rate level
- Visual and sound alarm in case preset dose rate and dose thresholds are exceeded
- Indication of time, date and temperature

Features

- Measurement of dose equivalent and dose equivalent rate of gamma and x-ray radiation
- Countdown of safe stay near a radioactive source
- Visual and audible alarms when one of the thresholds is exceeded
- PC communication via USB
- Two-year battery lifetime

Application

- Nuclear power plants
- Border guards
- Customs services
- Medical institutions
- Transport organizations
- Emergency and fire services
- Radiological and isotope laboratories

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Specifications

Detector	Geiger-Muller tube
Dose measurement range	1 μSv – 25 Sv
Dose measurement accuracy	±15 %
Dose rate measurement range	0.1 μSv/h – 100 mSv/h
Dose rate measurement accuracy	±(10 + 0.0005/H + 0.05 H)%, where H is the measured dose rate in mSv/h
Energy range	48 keV – 3.0 MeV
Dose and dose rate thresholds	2 independent thresholds for both dose and dose rate
Alarm type	audible, visual
Memory	non-volatile, up to 2000 events
PC communication	USB
Power supply	one lithium battery CR2450 or BR2450A
Battery lifetime	up to 24 months
Operating conditions ambient air temperature relative humidity atmospheric pressure	 from −40 °C to 60 °C up to 98 % at 35 °C from 84 kPa to106.7 kPa
Ingress protection	IP54
Dimensions	128 mm × 48 mm × 20 mm
Mass	130 g

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