



Innovating Radiation Detection Technologies Since 1992

WRIST GAMMA DOSIMETER PM1208M



The PM1208M Wristwatch Gamma Radiation Dosimeter is the next generation of the well-known PM1208 series of wrist gamma radiation dosimeters.

The PM1208 series of dosimeters has proven to be effective, accurate and dependable instruments. They are often best solutions when 24/7 monitoring of the radiation environment and acute dose is required. They have been deployed all around the world.

The PM1208 Wristwatch Gamma radiation Dosimeter incorporates a sensitive Geiger-Muller based gamma detector and a stylish wristwatch, combining a leading edge dosimeter technology with Swiss tradition of the watch making. An audible alarm alerts the user when a potential radiation hazard exceeds adjustable radiation threshold levels. The instrument contains non-volatile memory to keep the measured data until they are downloaded to a PC by means of built-in IR interface.

The PM1208M is a perfect combination of comfort, effectiveness and modern design. They are capable of protect you and those you are care about. You will wear it everywhere: at home, at work, in a travel and even under water.



Main features

- Stylish design combined with professional grade dosimeter
- Continuous monitoring and measuring of the ambient gamma dose/dose rate and dose accumulation time
- Audible alarm when preset adjustable radiation thresholds are exceeded
- Logging data in internal non-volatile memory of up to 500 data points
- Communicates with a PC via built-in IR channel
- Full wristwatch functionality: time and alarm clock
- Independent display of time on a digital display and analog faceplate
- Electroluminescent backlight
- Water resistance up to 100 m
- Two-level battery voltage control

ALARM

MEASUREMENT





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SPECIFICATIONS

Detector	Geiger-Muller tube
Dose equivalent rate (DER) registration and indication range	0.01-9999.99 $\mu\text{Sv/h}$
DER threshold range	0.01-9999.99 $\mu\text{Sv/h}$
Step	0.01; 0.1; 1; 10; 100
Accuracy of DER in the range 0.1-9999.99 $\mu\text{Sv/h}$, no less	$\pm 20\%$
Dose equivalent (DE) registration and indication range	0.001-9999.999 mSv
DE threshold range	0.001-9999.999 mSv
Step	0.001; 0.01; 0.1; 1; 10; 100
Accuracy of DE in the range 0.01-9999.999 mSv, no less	$\pm 20\%$
Energy range	0.06-1.5 MeV
PC communication	IrDA (57.6 kb/s)
Quartz watch movement	Ronda 763
Electronic quartz watch movement accuracy under normal conditions	± 1 s/h
Operating conditions	Temperature 0 °C to +45 °C RH up to 95 % (40 °C)
Case Protection Class	IP68
Power supply	One Lithium battery CR2032
Battery lifetime (typical)	18 months
Water resistance	up to 100 m
Dimensions (without band), no more	52.5x51x20 mm
Weight (without band), no more	130 g

Design and specifications of the device can be changed without further notice.

**PM1208M meets most
relevant parts of
IEC 60846 standard**

