



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**



IP68



IrDA





## WRIST GAMMA DOSIMETER

# PM1208M

### SPECIFICATIONS

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

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

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

