POLIMASTER

PM1208M Wrist Gamma Indicator

A fashionable Gamma dosimeter and Swiss-made watch in one housing. Recommended for everyday use by general public.

Features

The PM1208M Wrist Gamma Indicator is a stylish combination of gamma dosimeter and a Swiss-made quartz watch that continuously monitors environmental radiation levels and alerts user in case of danger with an audible alarm. The PM1208M can be used by both professionals dealing with radiation on a daily basis and concerned citizens.

The PM1208M performs the following functions:

- Continuous monitoring and measuring of the ambient gamma dose and dose rate;
- User alert of hazardous situations with an audible alarm;
- Recording and storing data for up to 500 events in its non-volatile memory;
- Transmiting all recorded data via an infrared channel to a PC for further processing and analysis.

The Swiss-made RONDA 763 with quartz movement ensures the reliability and accuracy of the watch operation. The waterproof steel case enables the use of the instrument on the depths up to 100 meters (328 feet). The watch also has an electroluminescent backlight allowing it to be operated in the dark.

Furthermore, the PM1208M is able to record and store data for up to 500 events in the instruments' non-volatile memory. The data then can be transferred via infrared channel to a PC for further analysis. The user can also use IR channel to change the instrument's settings by using the Polimaster's proprietary PC software.

The PM1208M requires only minimum power consumption and will operate continuously for one year from one CR2032 battery.

Your radiation protection posture is only as good as the warning systems that are in place. The small dosimeter is essential for professionals working with radiation sources as well as for anyone concerned with radioecological issues. As the radiation background increases greatly at high-altitudes, Polimaster recommends the PM1208M wrist gamma indicator to frequent airplane travelers for monitoring their radiation exposure.

Applications:

- Individual Radiation Protection
- Uranium Mining and Nuclear Fuel Production

Specification

	PM1208M
Detector	GM tube
Dose Rate display	0.01 - 9999.99 µSv/h (1 µR/h - 999.999 mR/h), H*(10)
Dose Rate Accuracy **(H − dose rate, µSv/h)**	±20% (in range 0.1 - 9999 µSv/h (10 µR/h - 999.9 mSv/h))
Dose measurement	0.001 - 9999 mSv (0.1 µR - 999.9 R)
Dose Accuracy	±20% (in range from 0.01 mSv to 9999 mSv (1 mR - 999.9 R))
Energy range	0.06-1.5MeV
Energy response relative to 0.662 MeV **(Cs-137)**	x
Survive after momentary influence of maximum permissible gamma radiation within 5 min:	x
Standards compliance	x
Alarm type:	visual, audio
Physical Parameters	

Dimensions	52 x 48 x 18 mm (2" x 2" x ¾")
Weight	100 g (3.5 oz)
Environmental Characteristics	
Temperature	0 up to +45 °C (from +32 up to +113 °F)
Humidity	up to 95% at 40°C (104°F)
Environmental protection	IP68
Drop test	x
Water resistant	100 m (up to 330')
Power	
Batteries	One CR 2032 Lithium battery
Battery lifetime	18 months
Battery discharge control	LCD indication
Additional	
Countdown timer	x
Display of time to critical exposure	x
Functions	Quartz clock movement Ronda 763 (Switzerland)
Calendar mode	alarm clock
PC Communication	IRDA