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 **POLIMASTER**[®]
Innovating Radiation Detection Technologies Since 1992



ELECTRONIC DOSIMETER PM1211

A new dosimeter of gamma-radiation 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 of gamma radiation $\dot{H}^*(10)$
- Measurement of ambient dose equivalent of gamma radiation $H^*(10)$
- Visual and sound alarm in case preset DER and DE thresholds are exceeded
- Indication of time, date, month, year and temperature

Application

- Customs and Border Guard services
- Medical institutions and isotope laboratories
- Transport organizations
- Nuclear Power stations
- Emergency and fire fighter services

Modifications

PM1211 with USB

PM1211-01 with USB, Bluetooth 4.0

PM1211-02 with USB, GPS

PM1211-03 with USB, Bluetooth 4.0, GPS

www.polimaster.com

Features



Measurement of dose equivalent and dose equivalent rate of gamma and x-ray radiation



Visual and audible alarms when one of the thresholds is exceeded



Recording measurement events fixing GPS coordinates



PC communication via USB



Online data exchange with mobile devices (iOS and Android) via Bluetooth 4.0 LE



Two-year battery lifetime

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SPECIFICATIONS

- **Detector:** Geiger-Muller tube
- **Dose equivalent (DE) measurement range:** 1 μSv - 25 Sv
- **Dose equivalent rate (DER) measurement range:** 0.1 $\mu\text{Sv/h}$ - 100 mSv/h
- **Energy range:** 48 keV - 3.0 MeV
- **Accuracy:**
 - dose measurement: $\pm 15\%$
 - dose rate measurement: $\pm(10 + 0.0005/\dot{H} + 0.05 \cdot \dot{H})\%$, (\dot{H} - DER value)
- **Energy response relative to 0.662 MeV:**
 - in the range from 48 keV to 3 MeV, not more: $\pm 29\%$
- **Thresholds:** 2 independent thresholds for both dose equivalent and dose equivalent rate
- **Alarm type:** visual and audible
- **Memory:** non-volatile
- **PC communication mode** (for all models): USB
- **Additional features:**
 - **PM1211-01:** Bluetooth 4.0 LE
 - **PM1211-02:** GPS
 - **PM1211-03:** Bluetooth 4.0 LE, GPS
- **Power supply:**
 - PM1211, PM1211-01: 1xCR2450 or BR2450 3 Volt Lithium Coin Cell Battery
 - PM1211-02, PM1211-03: 1xLIR 2450 3.6 Volt Li-Ion Rechargeable Coin Cell Battery
- **Battery lifetime**, up to:
 - PM1211, PM1211-01: 24 months
 - PM1211-02, PM1211-03: 4 months
- **Environmental:**
 - temperature: from -40 to +60 °C
 - humidity: up to 95 % at +35 °C
 - atmospheric pressure: from 84 to 106.7 kPa
- **Ingress protection:** IP54
- **Dimensions:** 128 x 48 x 20 mm
- **Weight** (including battery): ≤ 130 g

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