



# 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](http://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

# ELECTRONIC DOSIMETER PM1211

## SPECIFICATIONS

---

- **Detector:** Geiger-Muller tube
- **Dose equivalent (DE) measurement range:** 1  $\mu$ Sv - 25 Sv
- **Dose equivalent rate (DER) measurement range:** 0.1  $\mu$ 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):  $\leq 130$  g

Distribuito da: **Zetalab s.r.l.** **Zetalab.it**  
Via Umberto Giordano, 5 - 35132 Padova  
Tel 049 2021144 - Fax 049 2021143  
www.zetalab.it - email: info@zetalab.it

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

### North and South America

Polimaster Inc.  
44873 Falcon Place, Suite 128  
Sterling, VA 20166, USA  
Phone: +1 703 525 5075  
Fax: +1 703 525 5079  
info@polimaster.us

[www.polimaster.us](http://www.polimaster.us)

### Europe

Polimaster Europe UAB  
Ezero Str. 4, LT-13264 Didziasalis,  
Vilnius region, Republic of Lithuania  
Phone: +370 5 210 2323  
Fax: +370 5 210 2322  
polimaster@polimaster.lt

[www.polimaster.eu](http://www.polimaster.eu)

### Asia, Africa, Australia and Oceania

Polimaster Ltd.  
51, Skoriny St.,  
Minsk, 220141, Republic of Belarus  
Phone: +375 17 396 3675  
+375 17 268 6819  
Fax: +375 17 264 2356  
polimaster@polimaster.com  
[www.polimaster.com](http://www.polimaster.com)

### Japan

Polimaster Japan  
AUBE2 5-177 Kuratsuki  
Kanazawa, Ishikawa Prefecture  
920-8203 Japan  
Phone: + 81 076 201 8623  
Fax: + 81 076 201 8624  
pacific@polimaster.jp  
[www.polimaster.jp](http://www.polimaster.jp)