



POLIMASTER[®]
Radiation Detection Technologies



PERSONAL RADIATION DETECTOR

PM1703MA-II

PM1703[®]-II series of personal radiation detectors (PRDs) are extremely sensitive and robust devices that detect and locate even trace amounts of radioactive materials.

Equipped with a clip for multiple wearing options and easy to operate even for non-specialists, PRDs became the perfect fit as Radiation Pagers for public security agencies, including border control, rescue teams, police and anti-terrorist units that need to quickly search for radioactive materials in public places.

While ensuring high-performance detection for any scenario, PM1703[®]-II PRD provides confidence in personal safety by continuously monitoring the measured dose equivalent rate and alerting the user with visual, audible and vibration alarms when the pre-set radiation thresholds are exceeded.

PM1703MA-II model is a **gamma-only** PRD equipped with a high-sensitive scintillator for measurement of the **personal dose rate** up to **300 μ Sv/h**. **PM1703MA-II BT model** in addition has a Bluetooth module that enables communication with smartphones for advanced operation via the free Polismart[®] App.

Applications

- Customs and border control
- HAZMAT and CBRNe teams
- Steel and recycling industry
- Waste management sites
- Counter terrorism teams
- Homeland security
- First responders
- Special forces
- Public safety

Features

- NORM-suppression algorithm for differentiating color-coded alarms triggered by natural or man-made radiation materials
- Dedicated 0-9 scale mode with unitless dose rate indication
- Free Polismart[®] iOS and Android app for advanced operation
- Operation in extreme temperatures from -40°C to 50°C
- USB and Bluetooth (PM1703MA-II BT) communication
- ANSI N42.32-2016 and IEC 62401:2017 compliance
- Long-life alkaline or rechargeable battery
- Audible, visual and vibration alarms
- Shockproof hermetic case IP65



PM1703MA-II, PM1703MA-II BT PERSONAL RADIATION DETECTOR

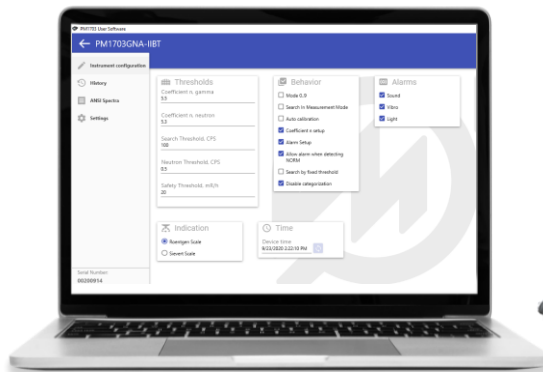


SPECIFICATIONS

Detector	CsI(Tl) SiPM	
Gamma sensitivity	100 cps per $\mu\text{Sv/h}$ 500 cps per $\mu\text{Sv/h}$	
Energy range	gamma (search)	33 keV to 3 MeV
Count rate indication range	1 to 9999 cps	
Dose rate measurement range	0.1 $\mu\text{Sv/h}$ to 300 $\mu\text{Sv/h}$	
Dose rate measurement accuracy	$\pm 30\%$	
Response time	0.25 s	Ingress protection IP65
Memory	2000 events	Drop test 1.5 m
Alarms	visual, audible, vibration	Dimensions 87 × 72 × 32 mm
Communication	USB; Bluetooth 4.0 (PM1703MA-II BT) (FCC ID: QOQBLE112, IC: 5123A-BGTBLE112)	Weight ≤ 200 g
Power supply	one AA (LR6) alkaline or rechargeable battery	Operating conditions
Battery lifetime		– ambient temperature $-40\text{ }^\circ\text{C}$ to $50\text{ }^\circ\text{C}$ – atmospheric pressure 84 kPa to 106.7 kPa – relative humidity up to 98 % at $35\text{ }^\circ\text{C}$
– Bluetooth off	≥ 1000 hours	Standards compliance ANSI N42.32-2016, IEC 62401:2017
– Bluetooth on	≥ 500 hours	



**Free Polimart®
iOS and Android App
for advanced operation**



**PM1703® Desktop Software
for setting alarms and thresholds,
accessing and processing the operation history**



**Optional telescopic extension pole
for remote operation and surveys
in hard-to-reach places**

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