



POLIMASTER®
Radiation Detection Technologies



PERSONAL RADIATION DETECTOR/DOSIMETER

PM1703MO-1 BT

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. The 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.

PM1703MO-1 BT model is a **gamma-only** PRD equipped with a high-sensitive scintillator and a Geiger-Mueller counter for extended measurement of the **personal dose rate up to 10 Sv/h** and **personal dose up to 10 Sv**. This model 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

- Personal dose accumulation up to 10 Sv
- Extended dose rate measurement range up to 10 Sv/h
- Dedicated 0-9 scale mode with unitless dose rate indication allowing for ease of use and minimal training
- Free Polismart® iOS and Android app for advanced operation
- Long-life alkaline or rechargeable battery
- Audible, visual and vibration alarms
- Bluetooth and IR communication



PM1703MO-1 MBT

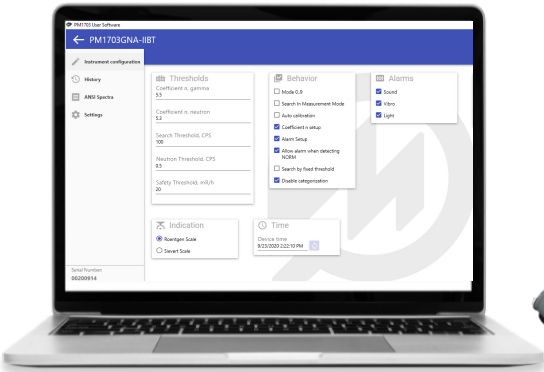
PERSONAL RADIATION DETECTOR / DOSIMETER



SPECIFICATIONS				
Detector		CsI(Tl); GM counter		
Gamma sensitivity	for ¹³⁷ Cs	85 cps per μSv/h		
	for ²⁴¹ Am	100 cps per μSv/h		
Energy range	gamma (search)	33 keV to 3.0 MeV		
	gamma (measurement)	60 keV to 1.33 MeV		
Dose rate measurement range		0.1 μSv/h to 9.99 Sv/h		
Dose rate measurement accuracy		±(20+0.0025/Ĥ+0.002·Ĥ) %, where Ĥ is the measured dose rate value in mSv/h		
Dose measurement range		0.1 μSv to 9.99 Sv		
Dose measurement accuracy		±20 %		
Response time	0.25 s		Ingress protection	IP65
Memory	2000 events		Drop test	0.7 m
Alarms	visual, audible, vibration		Dimensions	87 × 72 × 32 mm
Communication	IR;		Weight	≤ 250 g
	Bluetooth 4.0 (FCC ID: QOQBLE112, IC: 5123A-BGTBLE112)		Operating conditions	
Power supply	one AA (LR6) alkaline or rechargeable battery		– ambient temperature	–30 °C to 50 °C
			– atmospheric pressure	84 kPa to 106.7 kPa
Battery lifetime			– relative humidity	up to 98 % at 35 °C
			most relevant parts of	
– Bluetooth off	≥ 1000 hours	Standards compliance	ANSI 42.32-2016,	
– Bluetooth on	≥ 500 hours		IEC 62401:2017	



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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