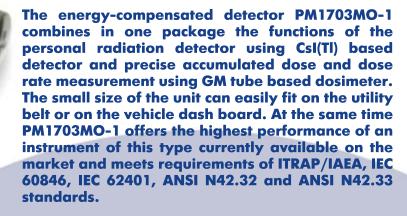


Innovating Radiation Detection Technologies Since 1992

PERSONAL COMBINED RADIATION DETECTOR/DOSIMETER

PM1703M0-



The range of the possible use applications varies from the health physics needs and the personnel acute dose monitoring to the security applications and area monitoring.

Currently PM1703MO-1 is available in two versions:

PM1703MO-1 (IAEA version)

This customization fulfills all requirements of International Atomic Energy Agency (IAEA) users and widely used for radiation security of international events.

PM1703MO-1 (USA version)

The model features expanded dose rate measurement range and large LCD for better result readings.

Accessories. Additionally, the PM1703MO-1 (USA version) is equipped with the optional vehicle charger/mounting cradle for easy placement on the dash board. At the user request instrument can be equipped with wide belt clip to fit on the utility belts up to 21/4" wide.



ALARM



o Ec



Features

- Easy to use, two-buttons operation
- Doesn't require any special knowledge.
- Two independent detectors: small-sized GM tube and highly sensitive Csl(Tl) scintillation detector
- Audible and vibration alarms
- Non-volatile memory
- Shockproof hermetic case
- Low EMI interference from portable radio and cell phones

Application

- First responders
- Customs and Border Patrol
- Police
- Emergency teams
- Law enforcement
- HazMatteams
- Security guards

IRDA

www.polimaster.com

www.polismart.com





Innovating Radiation Detection Technologies Since 1992

••••••

PERSONAL COMBINED RADIATION DETECTOR/DOSIMETER

PM1703M0-1

SPECIFICATIONS

PM1703MO-1 (USA)

PM1703MO-1 (IAEA)

	FM1703M0-1 (03A)	TMITOSMO-I (IALA)
Detector - gamma search - gamma measurement	CsI(TI) GM tube	CsI(TI) GM tube
Sensitivity - for ¹³⁷ Cs, ±20 % - for ²⁴¹ Am, no less	100 (s ⁻¹)/(μSv/h) (1.0 (s ⁻¹)/(μR/h)) 70 (s ⁻¹)/(μSv/h) (0.7 (s ⁻¹)/(μR/h))	100 (s ⁻¹)/(µSv/h) (1.0 (s ⁻¹)/(µR/h)) 130 (s ⁻¹)/(µSv/h) (1.3 (s ⁻¹)/(µR/h))
Energy range - for gamma	0.033 - 3.0 MeV	0.033 - 3.0 MeV
Time of measurement	0.25 s	0.25 s
Dose Rate	0.01 μSv/h - 10 Sv/h (1 μR/h - 1000 R/h)	0.01 μSv/h - 10 mSv/h (1 μR/h - 1000 mR/h)
Dose	0.01 μSv - 9.99 Sv (1 μR - 999 R)	-
Accuracy (at ¹³⁷ Cs)	±(20+ K/H)% in measurement range 0.1 μSv/h - 10 Sv/h (10 μR/h - 1000 R/h), where H - dose rate value in mSv/h; K - coefficient 0.005 mSv/h (H - dose rate value in mR/h; K - coefficient 0.5 mR/h)	\pm (15+K1/H+K2*H)% in measurement range 0.1 µSv/h - 10 Sv/h (10 µR/h - 1000 R/h), where H - dose rate value in µSv/h; K1 - coefficient 0.0045 µSv/h, K2 - coefficient 0.0015 (µSv/h) ⁻¹
Alarm type	visual, audio, vibration	visual, audio, vibration
Data recording	2000	1000
Environmental protection	IP65	IP65
Drop test on concrete floor	1.5 m (4.9 ft) 0.7 m (2.3 ft) without cover	1.5 m (4.9 ft) 0.7 m (2.3 ft) without cover
Power supply	one AA standard or rechargeable battery	one AA battery
Battery life time	up to 1000 hours	up to 1000 hours
Operating temperature	-30°C to 50°C (-22°F to 122°F)	-30°C to 50°C (-22°F to 122°F)
Size (without cover)	72 x 32 x 87 mm (2 13/16" x 1 1/4" x 3 7/16")	72 x 32 x 87 mm (2 13/16" x 1 1/4 " x 3 7/16")
Weight	200 g (7.05 oz) 240 g (8.5 oz)	200 g (7.05 oz) 240 g (8.5 oz)
Low battery warning	LCD	LCD
Overload indication - gamma	OL	OL

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

ITRAP/IAEA requirements, ANSI N42.32, ANSI N42.33 (1), ANSI N42.33 (2), IEC 60846, IEC 62401



ISO 9001

www.polimaster.com www.polismart.com