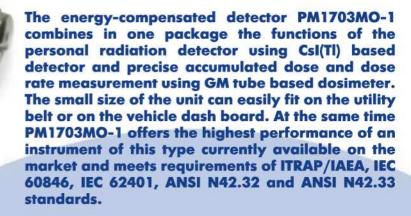


# PERSONAL COMBINED RADIATION DETECTOR/DOSIMETER

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:

#### PM1703M-O1 (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



MEASUREMENT

#### Features

- Easy to use, two-buttons operation
- Does not require any special knowledge or intensive training
- Two independent detectors: small-sized GM tube and highly sensitive Csl(Tl) scintillation detector
- Visual, audio and vibration
- Non-volatile memory
- Shockproof hermetic case
- Low EMI interference from portable radio and cell phones

#### **Application**

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



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Innovating Radiation Detection Technologies Since 1992

## PERSONAL COMBINED RADIATION DETECTOR/DOSIMETER

### PM1703M0-1

#### **SPECIFICATIONS**

PM1703MO-1 (USA)

PM1703M-O1 (IAEA)

	1 M 17 COMO - 1 (COA)	IMITOOM (IALA)
Detector - gamma search - gamma measurement	CsI(TI) GM tube	CsI(TI) GM tube
<b>Sensitivity</b> - for <sup>137</sup> Cs, ±20 % - for <sup>241</sup> Am, no less	100 (s <sup>-1</sup> )/(μSv/h) (1.0 (s <sup>-1</sup> )/(μR/h)) 70 (s <sup>-1</sup> )/(μSv/h) (0.7 (s <sup>-1</sup> )/(μR/h))	100 (s <sup>-1</sup> )/(μSv/h) (1.0 (s <sup>-1</sup> )/(μR/h)) 130 (s <sup>-1</sup> )/(μSv/h) (1.3 (s <sup>-1</sup> )/(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 <sup>137</sup> 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)	±(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) <sup>-1</sup>
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



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