

Gamma Pager PM1703M

Solid-state radiation pager for detection and measurement of gamma radiation

Main features:

- **Cesium Iodide crystal scintillator**
- **Audible and vibration alarms**
- **Count rate and dose rate modes**
- **Compact and lightweight**
- **Data storage**
- **PC communication**



Based on a CsI(Tl) scintillator detector, giving better sensitivity than Geiger-based devices and housed in a small, compact and lightweight unit, the device activates an alarm (audible and vibrating) when radiation levels pass a preset threshold, displaying the count rate on a backlit LCD. The unit may be switched between dose rate and counting modes for search, detection and dosimetry applications. Data including alarm times and levels are stored in a non-volatile memory and can be downloaded to a PC via an IR-channel. Also available with LiI(Eu) neutron detector incorporated (model PM1703GN) for enhanced detection of plutonium.

Specifications:	
Detector	CsI(Tl) scintillator
Energy range	0.033 - 3.0 MeV
Time of measurement	0.25 s
Range of n coefficient (the number of mean square deviations of the current background) Step	from 1 to 9.9 0.1
Indication range of dose equivalent rate (DER) of photon radiation H*(10)	0.01 - 70 μ Sv/h
Relative error of DER registration to Cs-137 in collimated radiation	\pm 30%
Count time: - in background mode - in search mode	36 s 2 s

PM1703M meets requirements of the ITRAP Program: detection with no less than 99% probability within 3 s at background level of 0.2 $\mu\text{Sv/h}$ and false alarm rate no more than 1 per 12 hours for Cs-137, Am-241, Co-60

at 1 $\mu\text{Sv/h}$

Additional functions	PC communication (IrDA)
Power supply	1.5 V (1 AA battery)
Battery lifetime (PANASONIC POWER LINE LR6 AA)	800 h
Battery discharge warning	LCD indication
Drop test on concrete floor	0.7 m
Degree of protection provided by housing	IP65
Operating conditions: - temperature range - relative humidity	from -30 to +50 °C (LCD from -15 to +50) up to 98% at 35 °C
Weight (with battery), no more than	180 g
Dimensions	87 x 72 x 35 mm