POLIMASTER .

PERSONAL RADIATION DETECTOR



PM1703GN GAMMA-NEUTRON PAGER

First Introduced in the United States in 2002 and currently most widely used by US law enforcement agencies.

This is still highly efficient existing first responders' "pager type" radiation detection instrument

For Law Enforcement, Homeland Security to prevent proliferation of nuclear materials and weapons.



The PM1703GN is the first in the world unique gamma/neutron PRD of the new generation, which is capable to detect even very small amounts of radioactive and nuclear materials including nuclear weapons materials.

The PM1703GN is designed as an extremely effective instrument for prevention of inland illicit trafficking of radioactive materials and nuclear weapons by terrorist groups





ALARM



LOCATION



INDICATION

Features

- Easy to use, two-button operation
- Doesn't require any special knowledge.
- Two independent scintillation detectors of CsI(TI) and LiI(Eu)
- Audible, and vibration alarms
- Non-volatile memory
- Shockproof hermetic case
- Low EMI interference from portable radio and cell phones

Applications

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





UAB "Polimaster Instruments" Kalvarijų g. 125, 3P4/p bٽilding, LT-08221 Vilnius, Lithuania

Phone (+370)5 210 2322 www.polimaster.eu Fax (+370)5 210 2323 www.polimaster.us



Detector	
- gamma	Csl (Tl)
- neutron	Lil (Eu)
Sensitivity	
- gamma	
for Cs-137, no less	1 cps/(μR/h) (100 cps/(μSv/h))
- neutron	205
for Pu- α -Be, no less for thermal neutrons, no less	0.05 counts cm ² / n 1.3 counts cm ² / n
	1.5 Counts Cin-/ II
Energy range - for gamma	0.033 - 3 MeV
- for neutron	0.025 eV - 14 Mev
Time of measurement	0.25 s
Range of n coefficient (the number of mean square deviations of	
the current background)	from 1 to 9.9
Step	0.1
•	
Indication range of dose equivalent rate (DER)	1 - 7 000μR/h (0.01 - 70 μSv/h)
Accuracy of DER registration to Cs-137 in collimated	± 30 %
radiation in the range from 10 up to 4 000 μR/h (from 0,1 up to	
40 μSv/h)	
Count time:	
- in background mode	36 s
- in the search mode	2 s
PM1703GN meets requirements of ITRAP Program: detection	
with no less than 99% probability within 3 s at background	
level of 20 μR/h (0,2 μSv/h) and false alarm rate no more than	
1 per 12 hours for Cs-137, Am-241, Co-60, with the dose rate	100 μR/h (1 μSv/h)
Additional functions	PC communication mode
Drop test on concrete floor	2.3' (0.7 m)
Power supply	1.5 V (one battery PANASONIC POWER
	LINE LR6 AA or compatible)
Battery lifetime	1 000 h
Battery discharge warning	indication on LCD
Operating conditions:	
- temperature range	- 22 +122 °F (-30 +50 °C)
- relative humidity (at 95 °F (35 °C))	up to 98%
Protection degree of case	IP65
Dimensions	3.43" x 2.83" x 1.38" (87 x 72 x 35 mm)
Weight (with battery), no more than	7.05 oz (200 g)
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Design and specifications of the device can be changed without further notice.