



RADIATION MONITOR PM5000P



PM5000P is a highly sensitive radiation monitor designed to detect radioactive and nuclear materials providing continuous automatic control of pedestrians and luggage at different check-points.

The Monitor is suitable both for indoor and outdoor installation.

When radioactive materials are detected or when the current background level threshold is exceeded, audible and visual alarms are triggered and alarm information is transferred to a computer.

If there is no mains power supply, the Monitor will be automatically powered from the built-in accumulator battery. The battery power enables at least 8 hours of Monitor work.



Features

- High sensitivity due to the large volume of detector
- Advanced data processing algorithms
- Sound and light alarms
- Video monitoring system (option)
- Storage of event history in non-volatile memory
- Indoor and outdoor installations
- Automatic, 24x7 operation
- Communication with a PC via LAN (Ethernet)
- Several monitors can be controlled from one PC

Application

- Cross border check points
- Customs check points
- Check points at nuclear power plants
- Nuclear industry facilities
- Nuclear waste disposal and storage sites
- Metallurgical facilities
- Mining sites
- Public events sites
- Check points in banks, offices, etc.



DETECTION



ALARM

Monitors

- Pedestrians
- Luggage

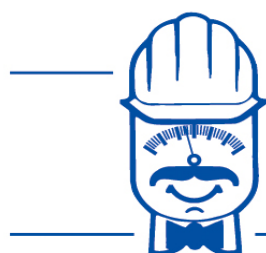
RADIATION MONITOR

PM5000P

SPECIFICATIONS

Control Area (width x height), m	1.5 x 2
Object velocity, not more than, km/h	5
Minimum detectable amounts of radioactive materials	
²⁴¹ Am, MBq (μCi)	1.0 (27)
¹³⁷ Cs, MBq (μCi)	0.16 (4.3)
⁶⁰ Co, MBq (μCi)	0.08 (2.2)
¹³³ Ba, MBq (μCi)	0.09 (2.45)
²³⁸ U, g	890
²³⁵ U, g	64
²³⁹ Pu, g	1.0
False alarm rate, not more than with natural gamma background no more than 0.1 μSv/h	1/10000
Alarm	Sound and light
Gamma detector	
Type	Organic plastic scintillator
Sensitivity for ¹³⁷ Cs no less, cps/(nSv/h)	52
Energy range	0.02 – 3.0 MeV
Power	external 90-260V AC 50/60Hz or internal battery (12V) with minimum 8 hours life time after external power failure
Operating conditions	
Temperature range	-30 ... +50 °C
Relative humidity at 35 °C	up to 100%
Atmospheric pressure	88 to 106,7 kPa
Protection degree	IP55
Dimensions, mm	400 x 2090 x 250
Weight, not more than, kg	125

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



A BGI company

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