

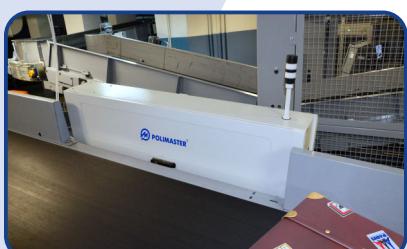


**POLIMASTER®**



Innovating Radiation Detection Technologies Since 1992

# RADIATION MONITOR PM5000P



## DETECTION

## Monitors

- Pedestrians
- Luggage

## ALARM

**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.



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# RADIATION MONITOR **PM5000P**

# SPECIFICATIONS

<b>Model</b>	<b>PM5000P</b>	<b>PM5000P-01</b>	<b>PM5000P-02B</b>	<b>PM5000P-03B</b>					
Position of the detection units	□	□ □	□	□ □					
Type of the registered radiation	<b>gamma</b>	<b>gamma</b>	<b>gamma-neutron</b>	<b>gamma-neutron</b>					
Parameters of the control zone W(width)xH(height),m*	1x2	1.5x2	1x2	1.5x2					
Max. speed,km/h	5	5	5	5					
Minimum detectable quantities of the radionuclide and radioactive materials	<sup>241</sup> Am,MBq,(\mu Ci)	0.4 (11)	0,7 (19)	0.12 (3.2)	0.175 (4.75)	0.75 (20)	1.29 (35)	0.2 (5.5)	0.33 (8.75)
	<sup>137</sup> Cs,MBq,(\mu Ci)	0.08 (2)	0,13 (3.5)	0.022 (0.59)	0.033 (0.88)	0.12 (3.2)	0.21 (5.6)	0.032 (0.87)	0.048 (1.3)
	<sup>60</sup> Co,MBq,(\mu Ci)	0.04 (1.1)	0.07 (1.9)	0.012 (0.32)	0.0175 (0.475)	0,065 (1.8)	0.11 (3)	0.018 (0.47)	0.026 (0.71)
	<sup>133</sup> Ba, MBq,(\mu Ci)	0.05 (1.25)	0.08 (2.16)	0.013 (0.36)	0.02 (0.54)	0.075 (2)	0,13 (3.5)	0.02 (0.55)	0.03 (0.8)
	<sup>238</sup> U,g	470	815	140	205	870	1500	250	380
	<sup>235</sup> U,g	30	50	8.5	12.5	47	80	13.4	20
	<sup>239</sup> Pu,g	0.8	1.4	0.24	0.36	1.4	2.3	0.4	0.6
	<sup>239</sup> Pu,g (4cm Pb)	-	-	-	-	110	190	42	62
<sup>252</sup> Cf,neutron/s	-	-	-	-	6500	11250	2500	3700	

**Alarm:** sound and light

**Energy range:** 0.02 – 3.0 MeV

**Power:** external 90-260V AC 50/60Hz or internal battery (12V) with minimum 8hours life time after external power failure

## **Operating conditions**

Temperature range:

Relative humidity at 40 °C:

Atmospheric pressure:

-30 ... +50 °C

up to 100%

84 to 106.7 kPa

IP55

### **Protection degree:**

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



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