



Innovating Radiation Detection Technologies Since 1992

RADIATION PORTAL MONITORS PM5000B Series

Radiation Portal Monitors (RPMs) PM5000B Series are highly sensitive fixed installation systems designed to automatically detect illicit trafficking of nuclear and other radioactive materials.









DETECTION







- Airports
- Seaports
- Railway stations
- Customs and border check points
- Nuclear plants and other facilities of the nuclear industry
- Nuclear waste disposal and storage sites
- Scrap metal industry
- Governmental offices, banks and post offices

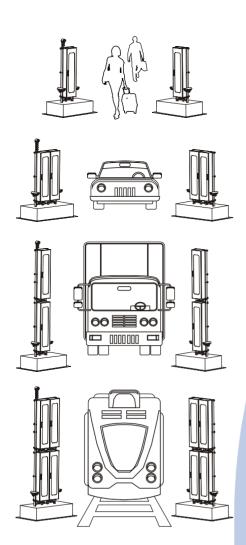


- Trains
- Trucks
- Cars
- Pedestr ians
- Post and luggage









Features

- High sensitivity
- Advanced data processing algor ithms
- Modular design
- Easy-to-use
- Audible and lightalarms
- Indoor and outdoor installations
- Reliable, automatic, 24/7 operation
- PC connection through the Ethernet port
- Video monitor ing system (option)
- Integration into a nuclear protection network controlled by a central PC (option) with further integration into higher level networks controlled by an Expert Center (option)

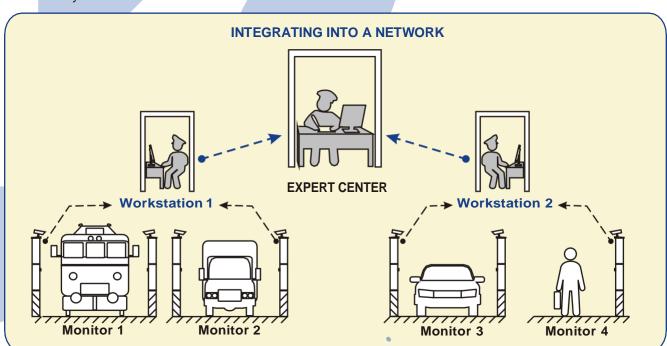
Principles and advantages of modular design

- Two types of detection assemblies for
 - gamma radiation
 - neutron radiation
- One-pillar and two-pillar configurations
- Adaptable height and width to accommodate any monitoring area
- Sensitivity is adjusted in compliance with the customer requirements

Standard RPM models

	Type of registered radiation	Parameters of the control zone W x H, m	Speed, km/h, no more than	Location of the detection assemblies	Application
PM5000B-01	Gamma	3.0x4.5 6.0x4.5	5 8	1 1	Pedestr ians, Luggage, Cars
PM5000B-05	Gamma	3.0x2 6.0x2	5 8	1 1	Pedestr ians, Luggage, Cars
PM5000B-09	Gamma Neutron	3.0x2 6.0x2	5 8		Pedestr ians, Luggage, Cars
PM5000B-10	Gamma Neutron	6.0x4.5 6.0x4.5	8 20	##	Cars, Trucks, Trains
PM5000B-13	Neutron	3.0x2 6.0x2	5 8		Pedestr ians, Luggage, Cars
PM5000B-14	Neutron	3.0x4.5 6.0x4.5 6.0x4.5	5 8 20	11	Pedestr ians, Luggage, Cars, Trucks, Trains
PM5000B-16	Gamma	6.0x4.5 6.0x4.5	8 20	-:: ::	Cars, Trucks, Trains







RADIATION PORTAL MONITORS PM5000B SERIES

False alarm rate

Power

is set by the user

85-264VAC 50/60Hz or battery (12V) with minimum 8 hours life after external power supply failure

Operating temperatures

-30 ...+50 °C

Power consumption Not more than 60VA

TECHNICAL SPECIFICATIONS

Model	Source velocity, km/h, not more	Search area* W x H, m	Minimum detectable amounts of nuclear and radioactive mater ials							
			²⁴¹ Am, MBq(μCi)	¹³⁷ Cs, MBq(μCi)	⁶⁰ Co, MBq(μCi)	²³⁸ U, g	²³⁵ U, g	²³⁹ Pu, g	²³⁹ Ри, г (4cm Pb)	²⁵² Cf, neutron/s
PM5000B-01	5	3.0x4.5	1.29 (35)	0.21 (5.7)	0.12 (3.2)	1300	80	2.3		
	8	6.0x4.5	1.9 (51)	0.31 (8.4)	0.17 (4.6)	1900	120	3.4		
LW2000R-02	5	3.0x2	0.46 (12)	0.08 (2.2)	0.045 (1.2)	460	32	0,9		
	8	6.0x2	1.8 (49)	0.29 (7.8)	0.16 (4.3)	1800	110	3.2		
PM5000B-09	5	3.0x2	0.46 (12)	0.08 (2,2)	0.045 (1,2)	460	32	0.9	85	5000
	8	6.0x2	1.8 (49)	0.29 (7.8)	0.16 (4.3)	1800	110	3.2	250	15000
PM5000B-10	8	6.0x4.5	1.29 (35)	0.21 (5,7)	0.12 (3,2)	1300	80	2.3	160	9300
	20	6.0x4.5	1.9 (51)	0.31 (8.4)	0.17 (4.6)	1900	120	3.4	280	17000
PM5000B-13	5 8	3.0x2 6.0x2							85 250	5000 15000
PM5000B-14	5 8	3.0x4.5 6.0x4.5							60 160	3300 9300
	20	6.0x4.5 6.0x4.5							280	17000
PM5000B-16	8	6.0x4.5	1.0 (27)	0.16 (4.4)	0.09 (2,5)	1000	62	1.9		
	20	6.0x4.5	1.5 (39)	0.24 (6,5)	0.13 (3,5)	1500	92	2.8		

^{*} for natural gamma and neutron radiation background level and not more than 1 false alarm per 10000 passages of conrolled objects throughout monitor ing area.

Design and specifications can be changed without further notice.