

Gamma-Neutron Radiation Portal Monitors SMP-M11, SMP-M22



SMP-M11

SMP-M11 or **SMP-M22** Radiation Portal Monitors (RPMs) are equipped with one or two measuring columns, respectively, to perform functions of detection and preliminary processing of the signals, and a control panel with a touch screen and printer.



Control panel - communicates with the measuring columns, processes the received data and

realizes the implemented functional and decision algorithms. The communication is bidirectional:

control panel controls operation of measuring columns and enables a remote change of parameters. It provides alarm visualization, view of the current operation status and automatic or desired generation and printing of reports.

SMP-Viewer - computer software designed for remote visualization of the single RPM performance. SMP-Viewer may be installed on any PC connected to the control panel by the Internet or an Ethernet. **SMP-Viewer** enables visualization of alarms, presents views of the current operation status, as well as automatic or desired generation and printing of reports.

Remote Management System SMP-Studio – computer database software that enables the centralized management of the SMP Radiation Portal Monitor System (from 1 to 32 control zones). This computer software provides a graphic view in an interactive synoptic chart, remotely controls the RPM's and enables a remote change of the parameters. **SMP-Studio** generates complete report of events (in PDF, Excel), registers images from the IP camera, archives all operational parameters and other data from the events in the database.

Sample applications of the SMP radiation portal monitors:

Application:	SMP type	Zone [width/height]	Maximum speed	Types of controlled vehicles
<ul style="list-style-type: none"> - border crossings: road, railway, ports, airports - control locations in nuclear plants and accompanying facilities - logistic centers - sport or event centers - facilities that require high level of protection (courts, penitentiaries, government buildings etc.) 	SMP-M22	3 m / 2 m	5 km/h	<ul style="list-style-type: none"> - pedestrians, pedestrians with baggage - indoor use
	SMP-M11	1,5 m / 2 m		

Main characteristics:

Automatic radiometric control without interference on the traffic.

High sensitivity.

Generation of reports and alarm signals.

Interactive control panel with a 8,3" touch screen.

Bi-directional communication which provides:

- remote control of the SMP
- remote change of selected parameter settings.

Operation in the dedicated Remote Management System SMP-Studio.

Video recording (supervised by the SMP-Studio).

Reliability.

User-friendly.

Aesthetic appearance.

The SMP system complies with the recommendations of the International Atomic Energy Agency of Vienna.



Technical data:

	SMP-M11	SMP-M22
Control zone (width/height)	1,5 m / 2 m	3 m / 2 m
Detection of radiological and nuclear materials	Pu-239	1,6 g
	Pu- 239 (4 cm Pb, gamma 1%)	120 g
	U-235 (HEU)	60 g
	Cf-252	7000 n/s
Maximum speed	5 km/h	
Gamma detector - organic plastic - active capacity	5 l x 1	5 l x 2
Neutron detector: He3 or replacement with the similar efficiency		
Alarm	acoustic and optical	
Number of false alarms / number of objects in the zone	1/10000	
Standard communication connections	Ethernet	
Power supply	230V 50 Hz	
Power consumption	75 VA	95 VA
Continuous operation time	24 h/day	
Maximum operation time with a built-in UPS power pack	8 h	
Measuring columns operation temperature	from 0°C to + 50°C	
Measuring columns protection	IP40	
Measuring columns weight	70 kg	
Measuring columns dimensions	Ø 0,27 m / 1,45 m	
Control panel: - dimensions (width/high/depth) - weight	453 mm / 294 mm / 146 mm 16 kg	
The control panel may be hung (e.g. on the wall), only for indoor use.		
Declaration of Conformity CE		
Assembly of the load-carrying structure of measuring columns requires a reinforced base.		
Options: Remote Management System SMP-Studio, IP cameras, database server, workstations, barriers.		



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