

Gamma-Neutron Radiation Portal Monitor SMP-11, SMP-22

#TechnologyThatProtects



SMP-11 or **SMP-22** 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 col-

umns 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] no more than	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-11	1.5 m / 2 m	5 km/h	<ul style="list-style-type: none"> - pedestrians, pedestrians with luggage indoor or outdoor use - luggage conveyor (registered or over-sized baggage)
	SMP-22	6 m / 2 m	5 km/h (optimal) 8 km/h (permitted)	<ul style="list-style-type: none"> - small vehicles (trolleys ect.) - cars

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Main characteristics:	Technical data:	SMP-11	SMP-22
Automatic radiometric control without interference on the traffic.	Type of radiation detected	gamma and neutron	
High sensitivity.	Amount of detection blocks:	1	2
Generation of reports and alarm signals.	Control zone (width/height)	1.5 m / 2 m	6 m / 2 m
Interactive control panel with a 8.3" touch screen.	Maximum speed	5 km/h	8 km/h
Bi-directional communication which provides: - remote control of the SMP - remote change of selected parameter settings.	Alarm	acoustic and optical	
Operation in the dedicated Remote Management System SMP-Studio.	Number of false alarms / number of objects in the zone	1/10000	
Video recording (supervised by the SMP-Studio).	Standard communication connections	Ethernet	
Reliability.	Power supply	230V 50 Hz	
User-friendly.	Power consumption	85 VA	105 VA
Aesthetic appearance.	Continuous operation time	24 h a day	
The SMP system complies with the recommendations of the International Atomic Energy Agency of Vienna.	Maximum operation time with a built-in UPS power pack	8 h	
	Measuring columns operation temperature	from -30°C to + 50°C	
	Measuring columns protection	IP55	
	Measuring columns weight:	140 kg	
	Measuring columns dimensions (H / W / D)	1.65-1.8 m / 0.69 m / 0.18 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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