

Radiation Portal Monitors SMP-4/100, SMP-2/50



SMP-4/100 or **SMP-2/50** Radiation Portal Monitor (RPM) is equipped with two measuring columns 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 signals and realizes the implemented functional and decision algorithms. The communication is bi-directional: control panel remotely controls operation of two 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 important parameters. SMP-Studio generates complete report of events (in PDF, Excel), registers images from the IP camera, archives all important operational parameters and other data from the events in the database.



Sample applications of the SMP radiation portal monitors:

Application:	SMP type	Control zone [width/height]	Maximum speed	Types of controlled vehicles*
- scrap metal recycling facilities - steel mills	SMP-4/100	4,5 m / 4 m	3 km/h	- trucks - rail vehicles - containers
- landfills - incineration plants	SMP-2/50	6 m / 4 m	8 km/h	- trucks

*Measuring columns height and detectors arrangement is designed individually depending on the size of the control zone and vehicles types.

Main characteristics:

Automatic radiometric control without interference on the traffic.

High sensitivity.

Generation of reports and alarm signals.

Speed control.

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:

Gamma detector - organic plastic - active capacity	25 l x 4 - SMP-4/100 25 l x 2 - SMP-2/50
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	from 90 to 105 VA
Continuous operation time	24 h a day
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 dimensions:	
SMP-4/100 - road	up to 3,75 m x 1,49 m x 0,18
SMP-4/100 - rail	up to 3,00 m x 1,49 m x 0,18
SMP-2/50 - road	up to 2,70 m x 0,94 m x 0,18
Measuring columns weight:	
SMP-4/100	380 kg
SMP-2/50	240 kg

Assembly of the load-carrying structure of measuring columns requires a reinforced base. Relpol S.A. delivers anchor frames together with foundations installation documentation.

It is necessary to arrange vertical or horizontal grounding for the purpose of protection against disturbances.

Control panel:	- dimensions	453 mm x 294 mm x 146 mm
	- weight	16 kg

The control panel may be hung (e.g. on the wall), only for indoor use.

Declaration of Conformity CE

Options:

Remote Management System SMP-Studio, IP cameras, database server, workstations, barriers.



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