

# 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  
witho-ut interference on the traffic.

High sensitivity.

Generation of raports 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  
parame-ter se"ngs.

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 re-  
commendations 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 <sup>0</sup> C to + 50 <sup>0</sup> 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, bar-riers.



Distribuito in Italia da



[www.activeradsys.it](http://www.activeradsys.it) [info@activeradsys.it](mailto:info@activeradsys.it)

tel:0544 408071 Fax: 0544 201477