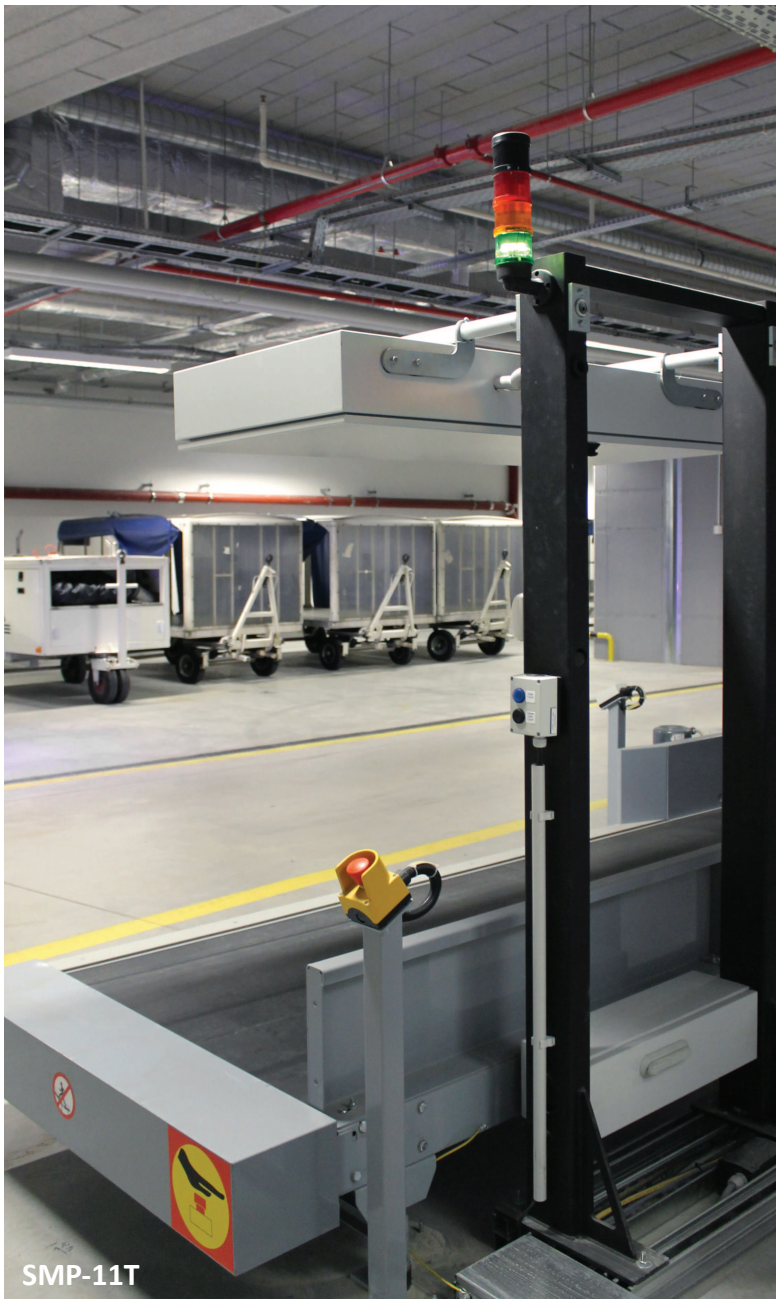
Gamma-Neutron
Radiation Portal Monitor
SMP-11T

SMP-11T Radiation Portal Monitor (RPM) is equipped with one measuring column 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.


SMP-11T

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Sample applications of the SMP radiation portal monitors:

Application	SMP type	Zone [width/height]	Maximum speed	Types of controlled vehicles
- border crossings: road, ports, airports - logistic centers - facilities that require high level of protection (courts, penitentiaries, government buildings etc.)	SMP-11T	2 m/ 1,5	5 km/h	- Baggage conveyor (registered or oversized baggage)

Main characteristics:

Automatic radiometric control without interference on the traffic.

High sensitivity.

Generation of raports 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.

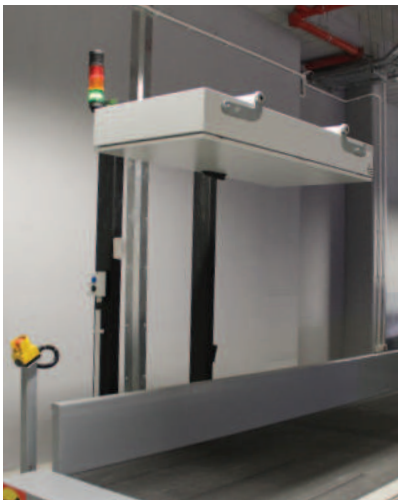
Video recording (supervised by the SMP-Studio).

Reliability.

User-friendly.

Aesthetic appearance.

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



Technical data: SMP-11T

Control zone (width/height)		2 m / 1,5 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
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		85 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^{0}C to + 50^{0}C
Measuring columns protection		IP55
Measuring columns weight:		140 kg
Measuring columns dimensions (H / W / D)		0,18 m / from 1,65 to 1,8 m / 0,69 m
Control panel: - dimensions (width/hight/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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