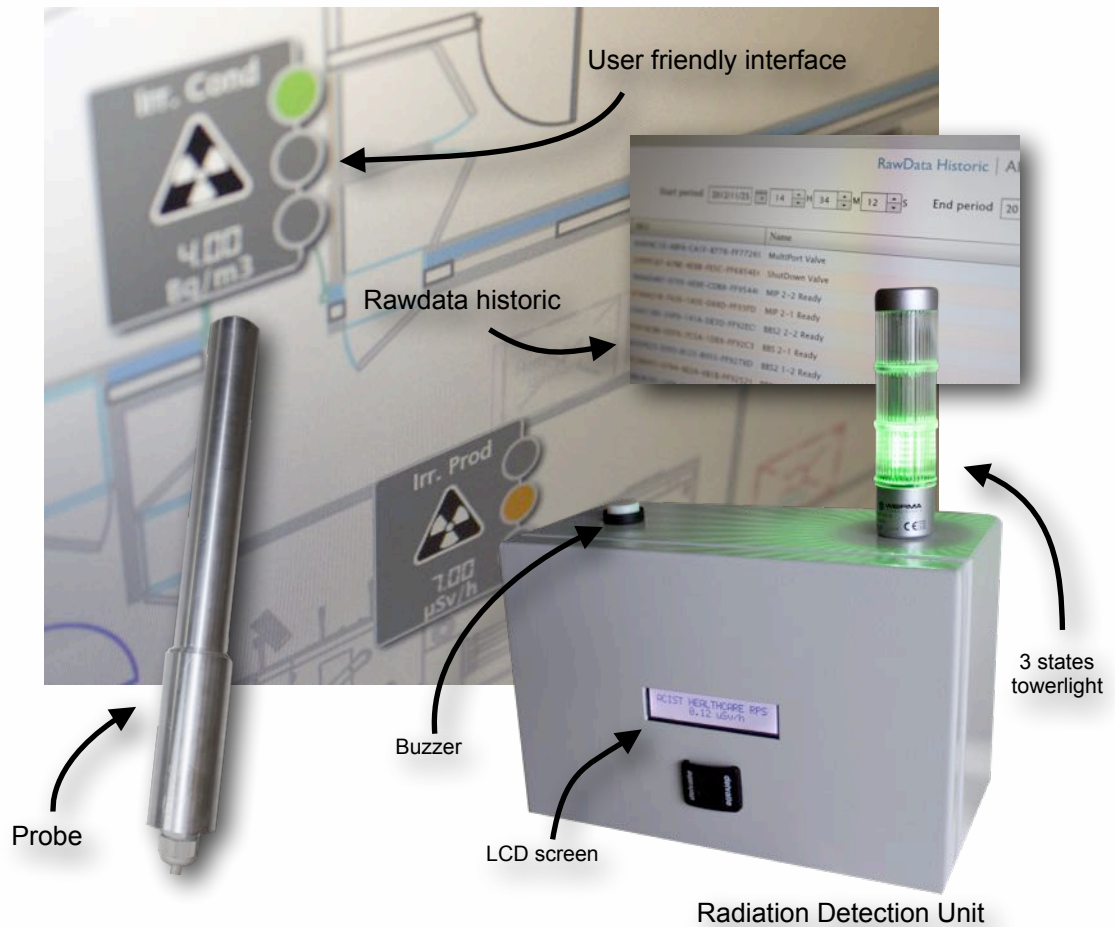


DATA SHEET
**Radiation
Protection System**



Radiation Protection System

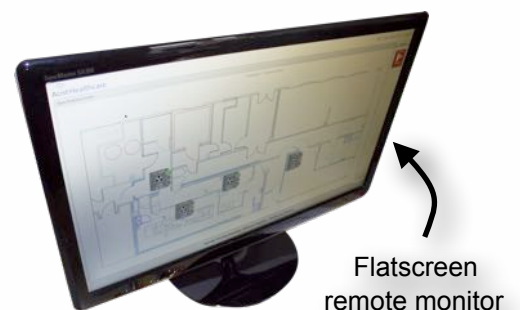
R.P.S is a radiation protection system dedicated to radioisotopes production facilities.

R.P.S allows supervising, alerting and acting on installation in order to preserve facility and persons.

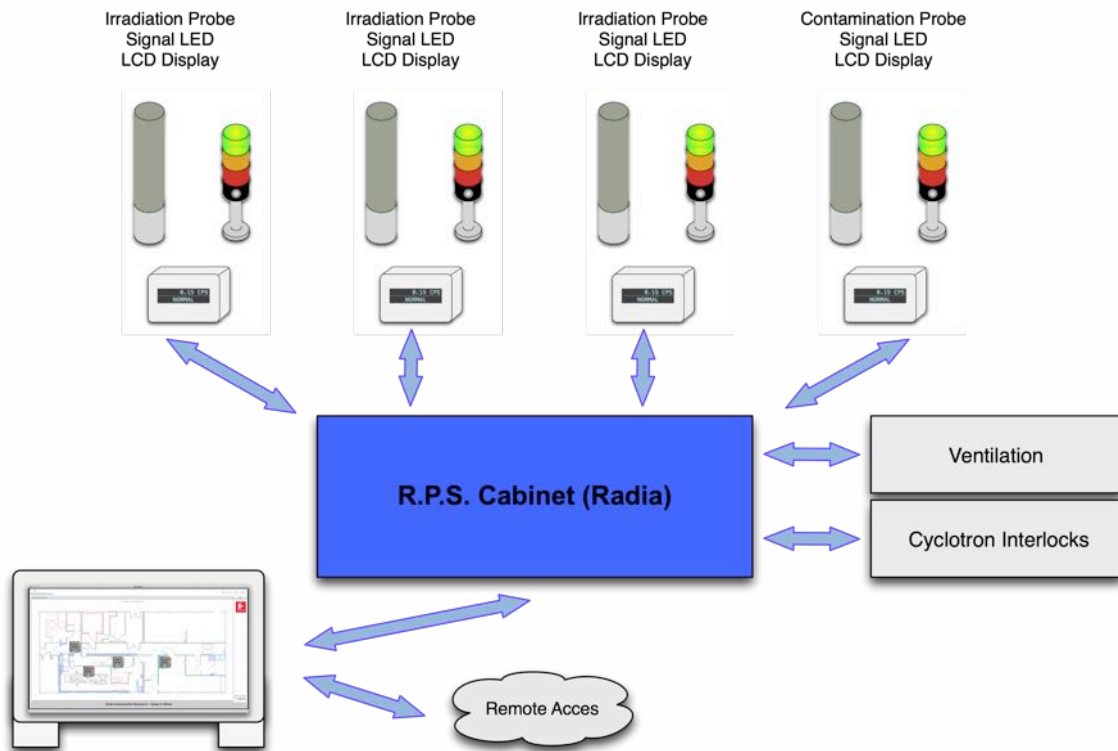
It also interacts in manufacturing processes:

- ventilation management,
- radiation protection management,

- quantification release,
- management of radioactivity level in ventilation exhaust...
- multi channel analyzer (MCA)



- RPS is a radiation protection system
- displays all radiation values and status
- manages alarm and history
- manages user rights.
- draws statistics and graphics.
- supports remote access
- Release quantification MCA available
- RPS is part of Acist Healthcare solution



Operating Process

R.P.S checks radiation levels, gives a «Radiation Protection System Ready» and authorizes ventilation.

R.P.S allows radiation protection management by:

- > Controlling radiation probes
- > Stopping ventilation flow
- > Calculating in real-time gaseous outflow quantification

> Alerting staff on radioactivity levels in the facility.

> Different access password level.

Database collects the information to display, alerting and backup.

The displayed module's screens are specific but can be designed according to your needs.

Database can be used in maintenance mode or multi-site mode through remote access.



Acist Healthcare solution is designed to collect the facility information.

Acist Healthcare solution allows supervising, alerting and acting on installation in order to preserve property and persons.

Acist Healthcare solution. is equipped with different modules to control radiation, to manage transfer or the cyclotron access. These modules are integrated in function of your needs.

Acist Healthcare solution can be used in multi-site mode from a remote single point (service center for

Acist Healthcare Solution

www.psi-nm.com

GM Probe and class C probes

Dimensions (length x diameter)	42 x 5 cm
Weight	1.45 kg
Radiation Detected	Gamma
Radiation Dose Measuring Range	0,07 µSv/h to 3 mSv/h
Radiation Contamination (18F) sensibility	3E-5 cps/Bq/m3
Radiation Contamination for 1 LPCA (cpm)	180 .
137Cs Photon Response (cpm/mR/h)	9 000

Radiation Detection Unit

Box Dimensions (length x width x depth)	30 X 20 X 16 cm
Light Dimensions (length x diameter)	37 x 7 cm
Display interface2 x 20 characters monochrome STN LCD (edge LED with backlight)
Color light	Red, Orange, Green
Duration file (LED)	Up to 100.000h - Free Maintenance
Audible Element (Buzzer)	90 db
Serial PortRS485
Power Supply	DC 5V and DC 24V

Standart Package

Irradiation Probe - <i>default location</i>	2 (QC, Cyclotron) + 1 (Class C Laboratory)
	1 - Exhaust
Contamination Probe - <i>default location</i>	4
Room Monitoring	Included
Radiabat Safety System (PLC and Computer)	

Options Available

- Additionnal Probe and Room Monitoring (Class C compliant, or Not Classed)
- Specific Neutron Probe
- Release Quantification Module (Flow Meter included)
The release quantification is computed using air flow and exhaust activity values. This information is stored in database. This module gives you, in real time, a clear view of your releases quantification given a user selected time range. This is a key component to ensure your facility exhaust is under control.
- Multi Channel Analyser Measurement
The Multi Channel Analyser is a release quantification by isotope. This Module gives you a clear view of your releases by isotope monitored. With the MCA product, you can control that the type of isotope rejected is correct on your facility.
- Extended Warranty (up to 5 years)

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