



RADIOACTIVE CONTAMINATION CONTROL AT EXIT POINTS OF INTERVENTION SITE IN CONTROLLED AREAS

SaphyRAD

/ CONTEXT

Radiation protection of workers is at the heart of the concerns of nuclear power plants.

To help nuclear industry organizations to comply with the « As Low As Reasonably Achievable » (ALARA) principle, Bertin has developed the **SaphyRAD** in order to limit the radiation exposure of people working in the nuclear sector.

This contamination meter has thus been designed to perform the control of radioactive contamination at exit points of intervention site and controlled areas.

/ CHECKOUT AT EXIT POINTS OF INTERVENTION SITE

The SaphyRAD is a multiprobe, handheld contamination meter for the detection of **alpha/beta and gamma radioactive contaminations**.

Robust and functional, it is equipped with a monitor and a wide range of probes which allow it to adapt to all surfaces (**31 cm²** or **100/170 cm²** probes) and to detect all types of radioactivity (**total count $\alpha\beta\gamma$** or **discrimination α from $\beta\gamma$**).



31 cm² probe



100 and 170 cm² probes

Positioned at exit point of intervention site, the **floor-stand**, along with its **removable probe** assist the worker to carry out a complete body control. The probe is automatically recognized by the floor-stand thanks to a magnet located on the display unit.



Hands check



Control of external contamination

The « **direct screening** » mode allows for a simple and efficient control even for non-specialized users.

The background noise measurement can either be **manual** or **automatic**. Furthermore, reading the monitor is quick and clear thanks to an **easy-to-check bar graph** and **two contamination levels**.

All the carried out measurements' results are then **stored on a removable SD card** and can be read later.

Two **indicative lights** are integrated into the probe to notify the user of the right distance to realize the radiation control, and to warn him/she if contamination is detected.

Ergonomic and user-friendly, the SaphyRAD is perfectly adapted for daily use by all users, even non-specialist.

/ CONCLUSION

Mainly used at exit points of intervention site, the **multiprobe contamination meter SaphyRAD** developed by Bertin Technologies is a comprehensive and effective detection system of radiological contamination. Adapted to both body control and surface controls, it ensures the radiological cleanliness of workers and workplaces, while keeping with ALARA approach.