ARGON™

World leaders in CBRN/
HazMat training systems

RDS-100-SIM

Argon's RDS-100-SIM 3-Probe simulation training system for the RDS-100

The RDS-100-SIM 3-Probe simulator set provides you with a training system that enables your students to experience the operational features of real Canberra RDS-100 probes without the need to utilize real radiation sources or radioactive materials.

RDS-100-SIM probes respond to safe electronic and magnetic sources that simulate alpha, beta and gamma radiation, removing regulatory, environmental, and health and safety concerns for you and your students. You can use the simulation sources anywhere, including within public buildings. RDS-100-SIM is compatible with the Argon PlumeSIM system for wide area tactical field and nuclear emergency response exercises enabling you to ensure everyone knows what to do when that emergency comes.

The RDS-100-SIM 3-Probe comprises three simulation probes for use with the real RDS-100 meter:

- BG-SIM-P* for training in the use of the RDS100 with the RDS-100GP probe

- A-SIM-P for training in the use of the RDS100 with the RDS-100AP probe

- B-SIM-P for training in the use of the RDS100 with the RDS-100AP probe

Instructor remote control for simulation of partial and full decontamination

The RDS-100-SIM 3-Probe set is also compatible with the AN/PDR-77 system survey meter:

- BG-SIM-P* for training in the use of the AN/PDR-77 radiac meter with the Beta/Gamma probe

- A-SIM-P for training in the use of the AN/PDR-77 radiac meter with the Alpha probe

- B-SIM-P for training in the use of the AN/PDR-77 radiac meter with the Pancake probe

* The BG-SIM-P can also be used with the M-243/VDR-2 radiac meter to simulate the DT616/VDR-2 probe. See the Argon DT616-SIM literature separately.

Training with RDS-100-SIM simulation probes

RDS-100-SIM permits radiological incident instructors to safely teach critical search, reconnaissance, survey/ location and decontamination skills as well as a practical understanding of inverse square law, isodoserate mapping, shielding and safe demarcation.

Whilst the BG-SIM-P receives an encoded signal representing specific gamma emitting radionuclides from deployed electronic simulation sources, it also responds to magnetic simulation sources that simulate beta sources for training in contamination, cross-contamination and decontamination. The A-SIM-P and B-SIM-P utilise the same magnetic simulation sources. An instructor remote controller (IRC) is provided in order to simulate the effects of partial or complete decontamination when using magnetic simulation sources, or to simulate probe failure.

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Training in the use of complementary equipment types with common simulation sources

Argon simulation systems enable realistic simultaneous training in the use of different types of radiation detection instruments. RDS-100-SIM system is compatible with other dosimeter, survey/radiac meter, and spectrometer simulators manufactured by Argon Electronics, permitting multi-detector, multi-isotope training to take place within the same scenario. You can even optionally include hazardous substance releases including chemical warfare agents to drive HazMat / CW simulation detectors.

Simulation beta source for decontamination alpha/beta training

PlumeSIM – Simulation of wide area tactical and emergency response field exercises

The RDS-100-SIM system is also compatible with Argon's PlumeSIM system. PlumeSIM enables real time instrumented wide area operational training exercises to be conducted using single or multiple simulation device types that respond in the real world to multiple virtual radiation or chemical hazard release events. For further information on PlumeSIM please see our separate literature for details of this innovative system or contact us for your free evaluation copy of PlumeSIM.

Cost effective realistic training for your teams

RDS-100-SIM probes are powered by the same battery supply as the real radiac meters to which they are connected. The simulators require no preventative maintenance or recalibration, reducing the cost of ownership. Expensive damage to real detectors is avoided which means operational readiness is maintained.

PlumeSIM compatibility enables you to provide Table Top and Live field exercises for plume release and radiological dispersal device response training.