

RadSIM App

When used with Argon's GS series of electromagnetic simulation sources (Radsim GS4 onwards), the Radsim App is a software application that provides the perfect solution for those instructors who wish to customise their training scenarios.

Different radiological exercise scenarios require students to obtain specific radiation readings at defined distances. You might for example wish to ensure a package containing a source provides a reading that exceeds that specified in the transportation regulations or a reading to be obtained at the location of a person to be rescued to be such that it is hazardous to both casualty and responder, thereby encouraging and reinforcing the need for rapid and effective operational decision making.

Customisable User Interface

The user interface is easily customisable to operate in the radioactivity and distance units of your choice. Once wirelessly linked to the simulation Gamma source by means of its integral Bluetooth connection you can configure each of the standard activity setting levels to represent the simulated activity level of your choice.

Set your doserate / activity and go

The simulated Gamma dose rate and activity can be directly set or alternatively you can decide the reading you wish your student to experience at a specific free space line of sight distance from the source and the App will then automatically calculate the required activity and transfer the setting to the source. Simulated doserate can range from zero (for neutron only source) to 1000 Sv/h (normalised at Cs137) which is just over $8.3E+5$ GBq read at 30cm (12 inches)!

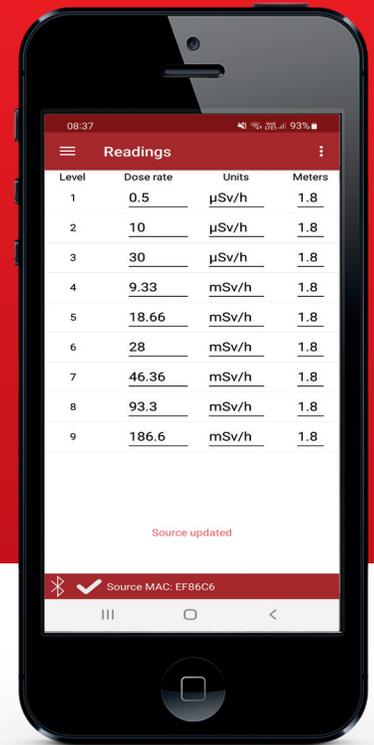
Neutron count setting

The Radsim App also enables you to configure simulated Neutron activity either as an independent Neutron source or mixed Gamma/Neutron source. You simply specify the count readings desired at a specific distance for each source level setting as required.

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1. Set simulated Dose Rate Reading at required distance using meters or feet.

Level	Activity for Cs137	Units
1	15.01	MBq
2	300.03	MBq
3	900.90	MBq
4	280180.18	MBq
5	560360.36	MBq
6	840840.84	MBq
7	1392192.19	MBq
8	2801801.80	MBq
9	5603603.60	MBq

2. Set simulated Activity Level in units of your choice.

Level	Neutrons	Units	Meters
1	9	cps	1.8
2	15	cps	1.8
3	22	cps	1.8
4	30	cps	1.8
5	42	cps	1.8
6	60	cps	1.8
7	80	cps	1.8
8	120	cps	1.8
9	150	cps	1.8

3. Set simulated Neutron Activity

Simply set and forget

Once you configure your simulation source you can release the Bluetooth connection and if desired transfer the same activity profiles to additional simulation sources so that each has the same configuration or set each simulation source with different activity levels. The source retains the activity settings even when power is removed, so you do not need to reconfigure activity levels unless you wish to change them.

Should you prefer other users remain unaware of the settings you have configured you can simply reconnect the App to the source and reset simulated activities to factory default settings.

Available Free on Google Play Store

Simply download the App from the Google Play Store, connect to your Radsim simulation source and create the scenarios you desire.