ARGON™

World leaders in CBRN/HazMat training systems

MultiGAS-SIM

Argon's MultiGAS-SIM represents a new, innovative, and refreshing approach to implementing a Multigas meter training capability.

There are many different types of Multi-Gas detectors produced by manufacturers worldwide. Most incorporate the same essential human interface characteristics by providing the user with audio and visual indications relating to the hazardous environment present.

Application-based MultiGAS simulation gives you flexibility

Argon's MultiGAS-SIM Application (App) operates on an Android smart mobile device. The Android device is attached to the MultiGAS-SIM simulator module allowing the technical interface by Bluetooth connection between the mobile device and the MutiGAS-SIM simulator module.

Wide range of instructor configurable simulation sensors

Argon's MultiGAS-SIM supports from one to a total of eight different simulation sensor types, including O2 and LEL. The instructor can configure the MultiGAS-SIM to incorporate specific simulation sensors as required to represent detectors with single or multiple sensor types. The visual layout of the sensors on the display screen allows for instructor configuration to accurately replicate the sensor layout configuration of real detectors in use.

The powerful combination of the MultiGAS-SIM App and simulator module permits MultiGAS-SIM to respond to independently deployed Long Range Vapor Source (LRVS) gas emitters.

Simulate multiple gases and O2 depletion

The LRVS gas emitters are easy to use and programmable to represent a wide range of hazardous substances and scenarios, including the depletion of O2. An LRVS, programmed at a reduced setting, emits a signal that remains close to the floor or close to the ceiling depending upon placement. The LRVS gas emitters emit a signal that can be detected at up to 25 meters (80 feet) distance in free space, allowing the simulated readings to increase as the student approaches the hazardous area and automatically reducing as they withdraw.

The ultrasound signal emitted by the LRVS gas emitters can be readily constrained when placed within a room, and the door closed. The gas signal escapes through the gaps between the door and the floor space unless the door creates a seal. In this case, there is no detection. Once the door is opened slightly, the reading increases slightly and continues to increase noticeably when the door is extended further.

Realistically simulated O2 depletion

Many responders will say that the most useful sensor a multi-gas detector has is the O2 sensor due to various substances that can deplete oxygen. An O2 sensor will alert this depletion to the user even if a specific sensor of the chemical release is not installed. MultiGAS-SIM recognizes this critical aspect of training and therefore simulates the depletion of O2 if an unknown substance is present.
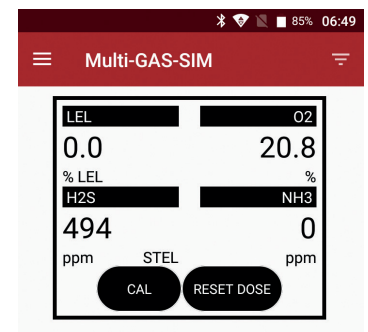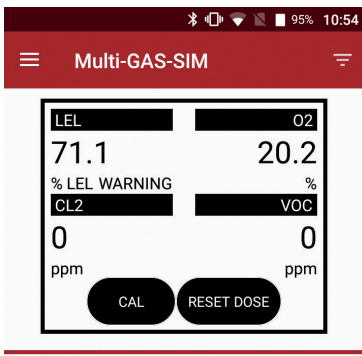
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Optional Instructor Remote Controller (IRC) for remote student monitoring

Our optional App-based instructor remote controller incorporates a customer-supplied Android tablet and the Argon communication interface module. This interface, capable of supporting multiple MultiGAS-SIMs, enables you to monitor the readings that the student is experiencing in real-time. You can also directly control the simulated readings on the student instrument.

PlumeSIM compatibility for more extensive exercises

MultiGAS-SIM is also compatible with PlumeSIM, Argon's world-leading wide-area CBRN / HazMat training system.

The MultiGAS-SIM is very easy to use, does not require any regular calibration or preventative maintenance, except to readily available commercial AA batteries, and has no consumables resulting in meager ongoing "whole life" cost of ownership.

O2 reading displaced by methane

MultiGAS-SIM simulator module for use with Android mobile.
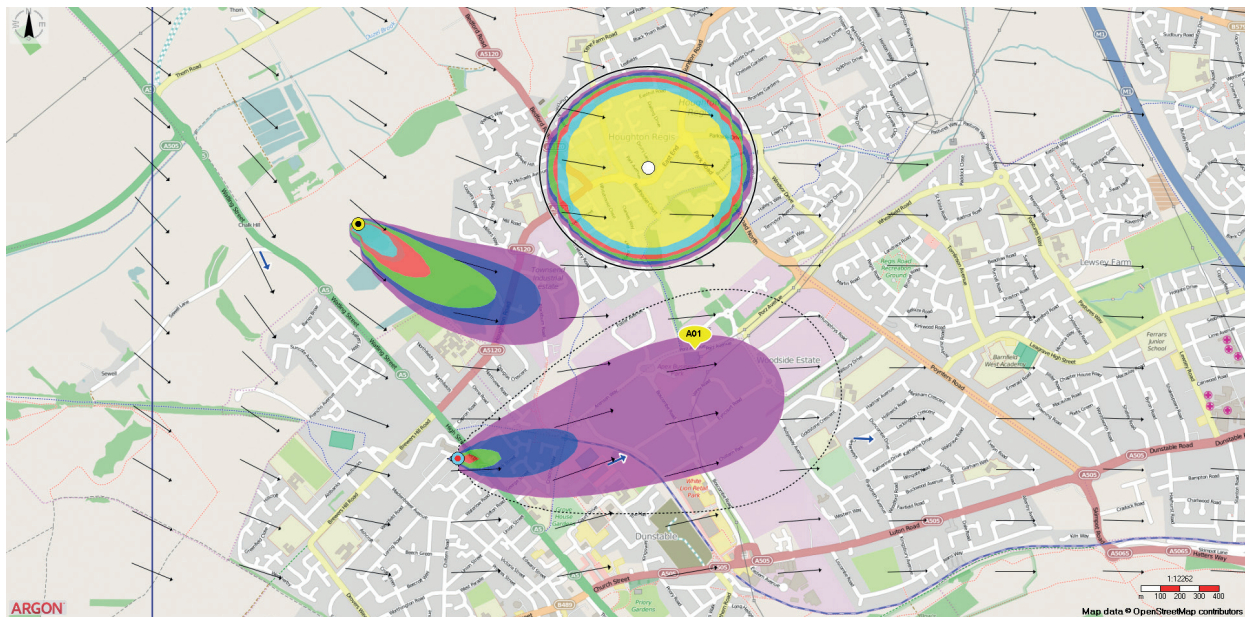
PlumeSIM supports single of multilple simulated threat releases.

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