

NexSense C: Version 3.33

BIT: N/A

Mode: Identified

CLASS:

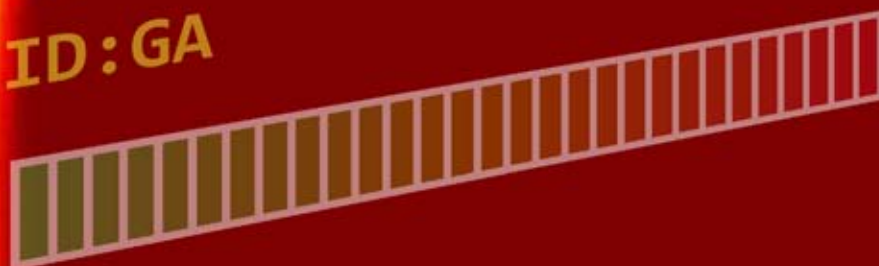


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NEXSENSE C - HH HAND HELD CHEMICAL DETECTION AND IDENTIFICATION SYSTEM

SELEX Galileo and Owlstone Nanotech Ltd are working together to develop our hand-held chemical detection and identification system.

This sensor will be the first in the world to offer a radiation free, UH-FAIMS (Ultra High Field Asymmetric Ion Mobility Spectrometry) system as a compact, hand-held device.

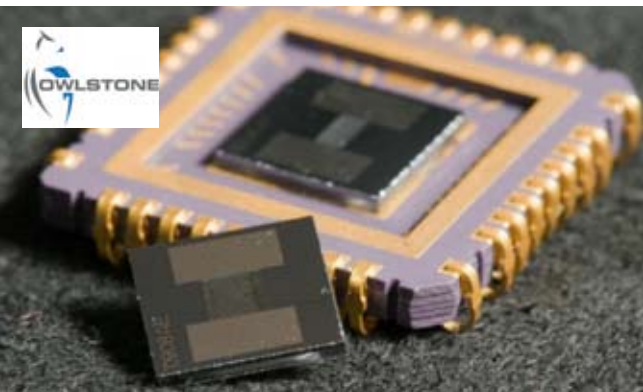
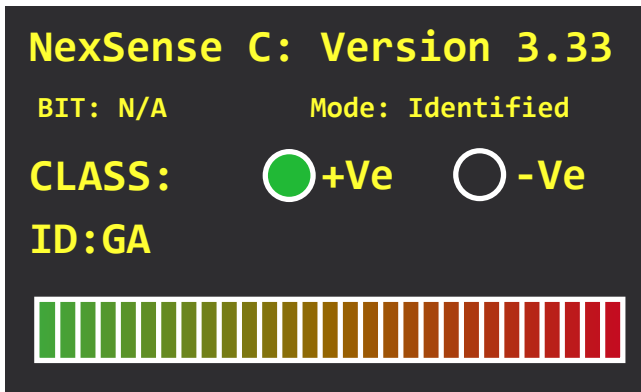
Nexsense C - HH shall provide fast and reliable chemical detection, identification and monitoring capabilities, simultaneously for a broad, and rapidly updateable, spectrum of chemical threat agents.

This ground breaking technology combined with world class data processing shall deliver the sensitivity and discrimination required to dramatically improve monitoring, detection and identification performance over current systems.

UH-FAIMS addresses a region of a chemicals' ion mobility response that is beyond the reach of conventional IMS systems. This enhanced data allows greater discrimination between similar chemicals, providing the Nexsense C - HH system with the ability to clearly identify individual threat agents, and avoid confusion with common interferents.

KEY CAPABILITIES

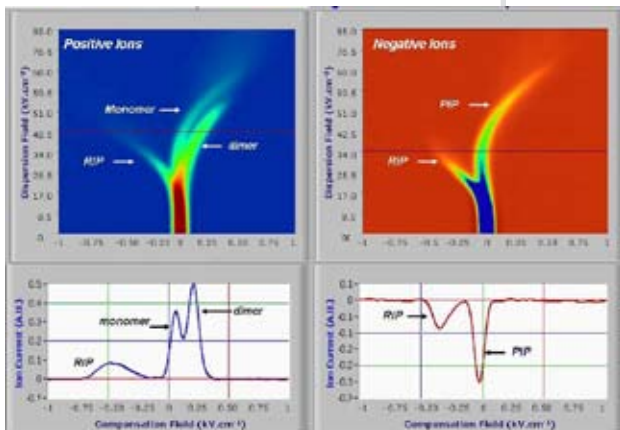
- Fast
 - Continuous Monitoring with detection of threat in 3 s
 - Identification of detected threat in 10 s
- Highly sensitive - at the UH -FAIMS region the chemical behaviour is much more distinct resulting in a system that is more sensitive than conventional IMS systems
- Reliable - by identifying the substance the system minimises false alarms
- Broad-band threat spectrum - Chemical Warfare Agents (CWAs), Toxic Industrial Chemicals (TICs) and their precursors.
- Readily expandable threat list - the user can easily add new threats to the database without any hardware changes
- Simultaneous - one operating mode for all threat types
- No Radiation Source - unlike other FAIMS systems the sensor does not contain a radioactive source therefore removing the need for user licences and storage and disposal issues.



NEXSENSE C utilises the Owlstone Nanotech detector; a miniaturised FAIMS sensor that is lighter, smaller and more power efficient than other available sensors

TECHNICAL SPECIFICATIONS

The system will be ultra compact with maximum dimensions of 210 x 120 x 53mm weighing 1.5kg making it easily carried in standard webbing or hand held. It will be designed to meet MIL Std/Spec 810



Nexsense C - HH system measures 210 x 120 x 53 mm and weighs only 1.5kg

SELEX Galileo has developed advanced algorithms that improve the sensors discrimination capabilities through enhanced data processing and pattern recognition. This produces a rugged response to threat detection in chemically complex environments.

Actual size outline of the Nexsense C -HH system