

# Prevention Engineering for Noise-Induced Hearing Loss



## Preventing exposure to excessive noise in the workplace

In the UK, the HSE estimates over 2 million workers are exposed to levels of noise that put their hearing at risk. In many sectors, such as manufacturing, engineering and construction, workers are exposed to noise that frequently surpasses 'normal' or 'safe' levels and durations.

But noise-induced hearing loss is 100% preventable.

Reactec has teamed up with hearing protection technology specialists, Minuendo, to help companies actively prevent hearing damage in their workforce.

Minuendo has developed a revolutionary ear plug called Smart Alert which not only provides protection from noise but also monitors the level of noise entering the ear. The Smart Alert earplugs have listen-through technology, meaning you don't have to remove your hearing protection in order to maintain situational awareness and the ability to communicate effectively with co-workers.

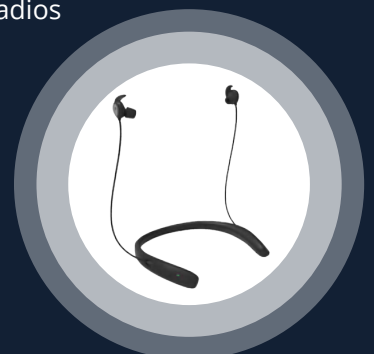
Smart Alert informs a worker in real-time of their noise exposure based on the noise entering the ear and proactively warns them if they are inadequately protected against that noise.

## About Smart Alert

Smart Alert earplugs offer an automated and integrated approach to hearing loss prevention.

### Benefits

- 1 Exposure alerts offer real-time feedback, encouraging safe behaviour
- 2 Listen-through technology allows users to maintain situational awareness, whilst having the ability to communicate with colleagues verbally or when using hand held radios
- 3 Noise exposure data for each ear, and the ambient noise at the collar, is collected continuously
- 4 Promotes a collaborative approach to hearing loss prevention



# HOW IT WORKS



## How it works

With patented acoustic membrane technology, there is no sound degradation with Smart Alert, meaning that users maintain situational awareness and the ability to communicate effectively with co-workers. The unmatched in-ear comfort and convenient neck cable with security clip allows users to easily combine Smart Alert earplugs with earmuffs and other PPE.

Continuous monitoring of noise levels and real-time alerts 'at the ear' means workers are able to take corrective action if noise levels are too high. At the end of each shift, the earplugs are docked for charging and noise data is automatically streamed to secure servers for analysis.

## Integrate with Reactec's powerful Analytics platform

The collaboration with Reactec means that the data gathered by the Smart Alert earplug will be seamlessly integrated into the powerful Reactec Analytics software. All that is required is to connect your Smart Alert dock to a local wi-fi network. With data seamlessly gathered into the Reactec Analytics you can readily assign the data to specific workers and take advantage of the robust feature set developed by Reactec over the last 10 years.

- 1 Robust scalable Microsoft Azure databases with strict GDPR compliant protocols
- 2 Intuitive intelligent reports which turn gathered data into actionable intelligence
- 3 Automatically distribute regular or event-driven reports to a hierarchy of dutyholders
- 4 Evidence your employee protection with "wear rate" reporting

By combining the noise exposure data gathered by Smart Alert with data on other risk agents within the Reactec Analytics platform, you can gain unparalleled insights to your workers' risk profiles.

Re-imagine prevention engineering risk out of your workplace.

# Reactec

For more information, speak to one of our experts today:

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