

# dBALERT

## PERSONAL NOISE ACTIVATED WARNING UNIT

Helps compliance with Health & Safety at Work regulations



vibration



noise



According to industrial safety law, areas subject to hazardous noise must be clearly defined, and workers notified of the danger. In most industrial settings, the noise hazard will vary throughout the premises and employees are often mobile. This is precisely where the Castle dBAlert personal noise activated warning unit comes into play.

dBAlert activates only when the noise exceeds a pre-set level, giving a clear, visible warning to exposed workers that noise levels have become dangerous and that ear-defenders must be worn. Perhaps, more importantly for the employee, this means that they will also know when they can legally take them off!

Being of rugged construction, dBAlert is suitable for most industrial situations. It comes complete with a pocket clip and the membrane keypad means that integrity and simplicity of use are maintained.

dBAlert is also available with an optional vibrating alert. This gives the wearer the added warning of a 'mobile phone' style, pulsed vibration to bring attention to the fact that dangerous noise levels have been exceeded.

dBAlert is a self-contained unit, housing its electronics in a tough case, and is easily set-up to company specific levels meaning it will be ready for action within moments of leaving the box.

The hyper-bright warning LED is brilliantly lit when activated and is designed to catch the wearer's attention by using their peripheral vision giving a highly visible warning.



INVESTOR IN PEOPLE



### Requirements of the Noise at Work Regulations

The HSE guidance under Regulation 9 of the 1989 Noise at Work Regulations states that.

*"Where it is not reasonably practicable to mark ear protection zones,... you should make adequate alternative arrangements to help make sure that employees know where or when protectors should be worn."*

So, where machines are not operated all of the time, or where noise sources move around in a factory it might be very difficult to instruct employees to make their own judgement about when and where to wear ear protection. dBAlert provides a novel solution to this widespread dilemma.

### Features

Self Contained Unit • Tactile Membrane Keypad • Single Button Operation • Simple Set-up • Hyper-Bright Warning LED • Built-in Microphone • AAA Battery Powered • Power on/Battery low LED • Long Battery Life • Optional Vibrating Alert •

**Castle**  
advanced sound solutions



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# dBAAlert SPECIFICATIONS



## OPERATION

dBAAlert is clipped onto clothing with the microphone facing outwards. If the localised noise exceeds the selected trigger level the hyper-bright warning LED will begin to flash and the vibrating alert (if fitted) will pulse for 15 seconds. Once the noise in the area falls below the threshold for more than 30 seconds, the LED is extinguished and a few short pulses from the vibrate alert (if fitted) will be emitted.

## SETTING THE ACTIVATED NOISE LEVEL

The unit is factory set to 85dBA and an internal switch enables the user to select one of 4 trigger levels:

- 75dBA
- 80dBA
- 85dBA
- 90dBA

## ORDERING INFORMATION

GA907 – dBAAlert Personal Noise Activated Warning Unit.

GA907V – dBAAlert Personal Noise Activated Warning Unit with vibrating alert

AAAALK – Pack of 10 MN2400 (AAA) Batteries

## MEASURING RANGE

75 dB to 103dB

## TRIP LEVELS

User-Selectable to 75dBA, 80dBA, 85dBA and 90dBA (factory set to 85dBA)

## TRIP TIME

LED: 30 seconds

Vibrate: 15 seconds

## CONTROLS

Power on/off membrane keypad

Power 'on' indicator LED

## DETECTOR

Characteristic: Averaging

## FREQUENCY WEIGHTING

'A' in accordance with IEC 61672-1:2002 Class 2

## TIME RESPONSE

Slow response (1000 mS)

## MICROPHONE

Built in Castle pre-polarised, electret microphone

## BATTERIES

2 x MN2400 (AAA) Alkaline or NiMH Rechargeable Batteries

## BATTERY LIFE

Duracell ProCell Alkaline Batteries: approx. 85 hours

## WARNING LED

1 x Hyper-Bright, LED, pulsed through software control

## VIBRATING ALERT

(Option)

Mobile phone style vibrating motor for tactile warning

(approx 150Hz)

Pulses for first 15 seconds of LED warning

## DIMENSIONS

Overall: 95mm x 47mm(widest) x 24mm (without clip) or 29mm (with pocket clip)

## WEIGHT

70g (with batteries)



In the interest of continued development, Castle Group reserve the right to change the specifications and features without notice.