

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 and tactile 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!

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.

dBAlert also has a built-in vibrating alert. This gives the wearer the added warning of a 15 second 'mobile phone' style, pulsed vibration to bring attention to the fact that dangerous noise levels have been exceeded.

Being of rugged construction, dBAlert is suitable for most industrial situations. It comes complete with a pocket clip and powered using the integrated Power Switch which has a delay function to prevent accidentally turning the unit off.

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.



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 • Single Button Operation • Simple Set-up • Hyper-Bright Warning LED • Built-in Microphone • AAA Battery Powered • Power on LED • Long Battery Life • Vibrating Alert • Low Battery Warning •

Castle Group Limited

Salter Road, Scarborough, North Yorkshire, YO11 3UZ, UK, Telephone +44(0)1723 584250, Fax: +44(0)1723 583728
email: sales@castlegroup.co.uk, internet: www.castlegroup.co.uk



dBAlert SPECIFICATIONS



OPERATION

dBAlert 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 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 will be emitted.

SETTING THE ACTIVATED NOISE LEVEL

The unit is factory set to 80dBA and an internal switch enables the user to select one of 4 trigger levels:

- 80dBA
- 85dBA
- 90dBA
- 95dBA

ORDERING INFORMATION

GA907 – dBAlert Personal Noise Activated Warning Unit.

AAAALK – Pack of 10 MN2400 (AAA) Batteries

MEASURING RANGE

80 dB to 103dB

TRIP LEVELS

User-Selectable to 80dBA, 85dBA, 90dBA and 95dBA (factory set to 80dBA)

TRIP TIME

LED: 30 seconds
Vibrate: 15 seconds

CONTROLS

Power on/off switch
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 Re-chargeable Batteries

BATTERY LIFE

Duracell ProCell Alkaline Batteries:
>50 Hours dependant on environment noise

WARNING LED

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

VIBRATING ALERT

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.