# **dB**ALERT

# PERSONAL NOISE ACTIVATED WARNING UNIT

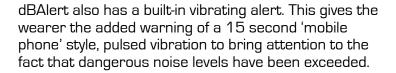
# Helps compliance with Health & Safety at Work regulations



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.



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 it's 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 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. dB*Alert* 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 •



# 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 Rechargeable 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.