

INTRODUCTION

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.

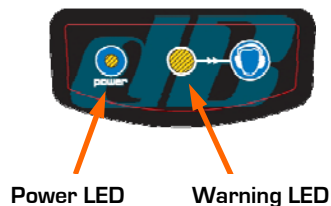
dBAlert also has a built-in vibrating alert. This gives the wearer the added warning of a 14 second 'mobile phone' style, pulsed vibration to bring attention to the fact that dangerous noise levels have been exceeded.

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 built in 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.

OPERATIONAL FEATURES

Top View



Front View



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 14 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.

The unit is factory set to 80dBA and an internal switch enables the user to select one of 4 trigger levels. The trigger level is set by the 2 DIP Switches inside the case, as follows:

	1	2
80	Off	Off
85	Off	On
90	On	Off
95	On	On

After setting the desired trip level insert a pair of AAA batteries and replace the cover.

When the power key is depressed both LEDs will briefly illuminate to show the unit has switched on and activated.

The power LED will continue to be illuminated while the battery level is sufficient to run the unit. Once this LED begins to flash then the batteries will need to be replaced.

Hold the power key for 3 seconds to switch the unit off.

Technical Specifications

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: 14 seconds

CONTROLS

Power on/off button

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 electret microphone

BATTERIES

2 x MN2400 (AAA) Alkaline or NiMH

Rechargeable Batteries

BATTERY LIFE

ProCell Alkaline Batteries: >50 hours
dependant on environment noise levels

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)

Warranty and After Sales Service

Castle Group Ltd design and manufacture precision instruments, which if treated with reasonable care and attention should provide many years of trouble free service.

In the event of a fault occurring, during the warranty period, the instrument should be returned to Castle Group Ltd, in its original packaging, or to an authorised agent. Please enclose a clear description of the fault or symptom.

An annual calibration is recommended to ensure that the unit is functioning as intended.

For warranty and service return to:

The Service Department
Castle Group Ltd
Salter Road
Scarborough Business Park
Scarborough
North Yorkshire
YO11 3UZ

Telephone : +44 (0)1723 584250

Fax : +44 (0)1723 583728

Web : www.castlegroup.co.uk

E-mail : techsupport@castlegroup.co.uk

Any misuse or unauthorised repairs will invalidate the warranty.. Damage caused by faulty or leaking batteries is not covered by the warranty.

Serial No.						
Cal By						
Date						
Cal Due						



dBAlert!

Personal Noise Activated Warning Unit