



NEW
the dBAir
Sound Level Meter
WITH WiFi

the new benchmark
in sound measurement

WIRELESS CONNECTIVITY ■ CLOUD SOFTWARE

- DESIGNED FROM THE GROUND UP
- A UNIQUE CASTLE INNOVATION
- DESIGNED BY INDUSTRY EXPERTS
- WIRELESS OPERATION!



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Who Are Castle?

Castle Group Ltd is a multi faceted company specialising in equipment and knowledge within the health, safety and environmental sectors.

At Castle we are all about tackling issues in a way most appropriate to you. If you want to purchase or rent some equipment and learn to manage a job yourself, then great; if, however, you just want us to come and do it all for you - equally great and there's any measure in-between.

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dBAir Technical Information

dBAir Models

dBAir Safety Class 1 (GA141S)
 dBAir Safety Class 2 (GA241S)
 dBAir Safety Octave (1/1) Class 1 (GA141SD)
 dBAir Safety Octave (1/1) Class 2 (GA241SD)
 dBAir Environment Class 1 (GA141E)
 dBAir Environment Octave (1/3) Class 1 (GA141EO)
 dBAir Safety & Environment Class 1 (GA141SE)
 dBAir Safety & Env. Octave (1/1,1/3) Class 1 (GA141SEO)

dBAir Systems

dBAir Safety Managers System
 dBAir Safety Managers Octave System
 dBAir Environment Assessment System
 dBAir Environment Assessment Octave System
 dBAir Safety & Environment Assessment System
 dBAir Safety & Env. Assessment Octave System

Applicable Standards

IEC 61672-1:2013
 IEC 61260-1:2014 (Where Octave Bands Fitted)
 IEC 61252:1993 amendment 1:2000 (Where Exposure Fitted)

Microphone

Class 1:
 1/2" Pre-Polarised - Free Field (IEC) Pressure (ANSI)
 Sensitivity (50mV/Pa) -26 dB ± 2 dB re 1V/Pa

Class 2:
 1/2" Pre-Polarised - Free Field (IEC) Pressure (ANSI)
 Sensitivity (25mV/Pa) -32 dB ± 2 dB re 1V/Pa

Measurement Ranges

Linear Operating Range: 95dB

Noise Floor

Typical 'A' Weighting <18 dB(A) rms
 'C' Weighting <30 dB(C) rms
 'Z' Weighting <30 dB(Z) rms

Frequency Weightings

Measurement 1: A, C or Z Measurement 2: A, C or Z

Frequency Range

1 Hz - 20 kHz (electrical characteristics)
 Class 1: 12.5 Hz - 20 kHz (including microphone)
 Class 2: 16Hz - 16kHz (including microphone)

Time Weighting

Measurement 1: Slow, Fast, Impulse
 Measurement 2: Slow, Fast, Impulse

Octave Band Analysis

Where fitted 1/1 or 1/3 octave band analysis on measurement 1 only.

Display

2.4" Full Colour TFT 240x320 pixels

Dual Measurements

Simultaneous dual measurement with independent time and frequency weightings.

MEASUREMENT PARAMETERS

dBAir Safety:

LSPL, LE, LEG, LMAX, LMIN, Peak, LEPd, Exposure Points, Dose, Hearing Protector Calculator

dBAir Safety Octave:

LSPL, LE, LEG, LMAX, LMIN, Peak, LEPd, Exposure Points, Dose, Hearing Protector Calculator
 1/1 or 1/3 Octaves:
 LSPL, LE, LEG, LMAX, LMIN, Peak

dBAir Environmental:

LSPL, LE, LEG, LMAX, LMIN, Peak, Lm3, Lm5, Lday, Lnight, Ldn, Lden, NA, 10 user-definable Ln values (pre-set to: L1, L2, L5, L10, L50, L90, L95, L98, L99) plus LAF* for Noise act assessment.

dBAir Environmental Octave:

LSPL, LE, LEG, LMAX, LMIN, Peak, Lm3, Lm5, Lday, Lnight, Ldn, Lden, NA, 10 user-definable Ln values (pre-set to: L1, L2, L5, L10, L50, L90, L95, L98, L99) plus LAF* for Noise act assessment. 1/1 or 1/3 Octaves:
 LSPL, LE, LEG, LMAX, LMIN, Lm3, Lm5, Peak

dBAir Safety & Environmental:

LSPL, LE, LEG, LMAX, LMIN, Peak, LEPd, Exposure Points, Dose, Hearing Protector Calculator, Lm3, Lm5, Lday, Lnight, Ldn, Lden, NA, 10 user-definable Ln values (pre-set to: L1, L2, L5, L10, L50, L90, L95, L98, L99) plus LAF* for Noise act assessment.

dBAir Safety & Environmental Octave:

LSPL, LE, LEG, LMAX, LMIN, Peak, LEPd, Exposure Points, Dose, Hearing Protector Calculator, Lm3, Lm5, Lday, Lnight, Ldn, Lden, NA, 10 user-definable Ln values (pre-set to: L1, L2, L5, L10, L50, L90, L95, L98, L99) plus LAF* for Noise act assessment.
 1/1 or 1/3 Octaves:
 LSPL, LE, LEG, LMAX, LMIN, Lm3, Lm5, Peak

Languages

English UK, English US, Chinese, French, German, Italian, Portuguese Brazilian, Russian, Spanish

Time History

Short Interval: 10ms to 60m
 Long Interval: 1s to 24h
 Smart Timer, Duration Timer or Interval Timer

Memory

16GB, 32GB, 64GB

Input / Output Connection

Micro USB Type B

Power

Batteries: 4 x AA (1.5V)
 Life: Up to 8 Hours continuous operation (screen settings dependent)
 USB Socket

Size and Weight

Dimensions:
 Including Pre-Amplifier:
 210mm (H) x 70mm (W) x 30mm (D)
 Excluding Pre-Amplifier:
 145mm (H) x 70mm (W) x 30mm (D)
Weight:
 Model - 305g System - 1500g

Available Accessories

GA607 Dual Level Calibrator
 KA017 Kit Case for dBAir & Accessories (included)
 KA022 Weatherproof Enclosure
 ZL141-S01 Standard Microphone Extension Cable
 ZL1108-01 USB to Micro USB Cable 1m
 PSU6 USB Wall Plug

find out more www.dbairsoundmeter.com

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