dBAir systems for SAFETY & ENVIRONMENT

dBAir Models

- dBAir Safety Class 1 (*GA141S*)
- dBAir Safety Class 2 (GA241S)
- dBAir Safety Octave (1/1) Class 1 (GA141SO)
- dBAir Safety Octave (1/1) Class 2 (GA241SO)
- dBAir Environment Class 1(GA141E)
- dBAir Environment Octave (1/3) Class 1(GA141EO)
- dBAir Safety & Environment Class 1(GA141SE)
- dBAir Safety & Environment Octave (1/1,1/3) Class 1(GA141SEO)

dBAir System

- dBAir Safety Managers System
- dBAir Safety Managers System Octave System
- dBAir Environment Assessment System
- dBAir Environment Assessment Octave System
- dBAir Safety & Environment Assessment System
- dBAir Safety & Environment Assessment Octave System

Applicable Standards

- IEC 61672-1:2013
- IEC 61672-1:2014 (Where Octave Brands Fitted : **Only model GA141EO, GA141SEO**
- IEC 61672:1993 amendment 1:2000 (Where Exposure Fitted)

Microphone

Class 1: **Only models GA141S, GA141SO, GA141E, GA141EO, GA141SE, GA141SEO**

- Type 1 Pre-Polarised 1/2" (13.2 mm)
- Electrate Condenser Microphone-27 dB + 2 dB re 1V/Pa

Class 2: **Only models GA241S, GA241SO**

- Type 2 Pre-Polarised 1/2" (13.2 mm)
- Electret Condenser Microphone -32 dB + 3 dB re 1V/Pa

Measurement Range

Linear Operating Range: 95dB

Noise Floor

Typical

- A' Weighting <15 dB(A) rms
- 'C' Weighting <18 dB(C) rms
- 'Z' Weighting <18 dB(Z) rms

Frequency Weightings
- Measurement 1:A, C or Z
- Measurement 2:A, C or Z

Frequency Range
- 1Hz-20 kHz (electrical characteristics)
- Class 1: 12.5 Hz-20 kHz (Including microphone) **Only models GA141S, GA141SO, GA141E, GA141EO, GA141SE, GA141SEO**
- Class 2: 12.5 Hz-16 kHz (Including microphone) (TBD) **Only models GA241S, GA241SO**

Time Weighting
- Measurement 1: Slow, Fast, Impulse
- Measurement 2: Slow, Fast, Impulse

Display
2.4" Full Colour TFT 240x320 pixels

Dual Measurements
Simultaneous dual measurement with independent time and frequency weightings.

Octave Band Analysis
Where fitted 1/1 or 1/3 octave band analysis on measurement 1 only. **Only model GA141SEO**

Measurement Parameters
dBAir Safety: Only models GA141S, GA241S
LSPL, LEQ, LMAX, LMAX, Peak, LEP'd, Exposure Points, Dose, Hearing Protector Calculator
dBAir Safety Octave: Only models GA141SO, GA241SO
LSPL, LEQ, LMAX, LMAX, Peak, LEP'd, Exposure Points, Dose, Hearing Protector Calculator 1/1 or 1/3
Octaves: Only models GA141SO, GA241SO
LSPL, LEQ, LMAX, LMAX, Peak
dBAir Environmental: Only models GA141E
LSPL, LE, LEQ, LMAX, LMAX, Peak, Ltm3, Ltm5, 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: only models GA141EO
LSPL, LE, LEQ, LMAX, LMAX, Peak, Ltm3, Ltm5, 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: Only models GA141EO
LSPL, LE, LEQ, LMAX, LMAX, Ln's, Peak
dBAir Safety & Environmental: Only models GA141SE
LSPL, LE, LEQ, LMAX, LMAX, Peak, LEP'd, Exposure Points, Dose, Hearing Protector Calculator, Ltm3, Ltm5, 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: Only models GA141SEO
Octaves: Only models GA141SEO
LSPL, LE, LEQ, LMAX, LMAX, Ln's, 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

Input / Output Connection

Micro USB Type B

Power

Batteries: 4 x AA (1.5V)

Life: Approximately 16 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: 480g approximately (including batteries)

Accessories standard for all model

+ Windshield KG205

+ dBAir Micro USB Cable

Option Accessories:

+ **GA607:** Dual Level Calibrator (Option)

Applicable Standards	IEC60942:2003 Sound Calibrators, Class 1/C
Output	94dB or 104dB relative to 20µPa Nominal Sound Pressure level at 101.3kPa (760mm Hg) 23° & 50%RH
Tolerance	± 0.3dB
Harmonic Distortion	< 3%
Temperature Range	-10°C to 50°C
Batteries	2 x 3V CR2032 (coin cell) Life: Approx. 70 Hours
Dimensions	Cavity Diameter: 1/2" microphone standard Length: 140mm Diameter: 51mm Weight: 230g

+ **KA017:** Kit Case for dBAir and Accessories (included only) for Kit Set (option)
+ **KA022 :** Weatherproof Enclosure (Option)
+ **PSU5:** Power Supply (Option)
+ **ZL1093-01:** Microphone Extension Cable (1m) (Option)
+ **ZL1061-01:** AC Output Cable (Option)

Option CASTLE CLOUD SOFTWARE: The Castle Cloud Software is for all Sonus and dBAir Models

CCST Starter Castle Cloud Account 1 User, 2 Instruments Free
CCPROFREE: FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems) Free with Kit set
CCPRO1: Pro Account for Castle Cloud - 5 Users, 5 Instruments (1 Year)
CCPRO2: Pro Account for Castle Cloud - 5 Users, 5 Instruments (2 Year)
CCPRO3: Pro Account for Castle Cloud - 5 Users, 5 Instruments (3 Year)
CCPRO11: Pro+ Account for Castle Cloud - 25 Users, 25 Instruments (1 Year)
CCPRO12: Pro+ Account for Castle Cloud - 25 Users, 25 Instruments (2 Year)
CCPRO13: Pro+ Account for Castle Cloud - 25 Users, 25 Instruments (3 Year)
CCPAC1: Castle Cloud Partner Account (1 year, Castle Brand)
CCPAC2: Castle Cloud Partner Account (2 year, Castle Brand)
CCPAC3: Castle Cloud Partner Account (3 year, Castle Brand)
CCPAB1: Castle Cloud Partner Account (1 year, Partner Brand)
CCPAB2: Castle Cloud Partner Account (2 year, Partner Brand)
CCPAB3: Castle Cloud Partner Account (3 year, Partner Brand)
CCSETUP: Set up for Partner Account with Partner Branding

Choose Your Cloud Solution (option)

FEATURE	STARTER	PRO	PRO+
Number of users	1	5	25
Number of Instruments	2	5	25
Storage Space	500MB	5Gb	25Gb
File Manager	✓	✓	✓
Message System	✓	✓	✓
Exposure Calculator	✓	✓	✓
Hearing Protection Database	✓	✓	✓
BS 4142 Calculator	✓	✓	✓
Lden Calculator	✓	✓	✓
Save Calculator Data		✓	✓
Live Calibration Data		✓	✓
Factory Mapping		✓	✓
Extended Database Functions		✓	✓
Report Generator		✓	✓
Report Auto Emailing		✓	✓
Employee Database		✓	✓
Location Database		✓	✓

FEATURE	STARTER	PRO	PRO+
Task Database		♜	♜
Risk Assessment System		♜	♜

Option Kit Set:

Handheld Safety Systems

-Model NK101 dBAir Safety Managers System - Class 1
Includes:
+ GA141S dBAir Safety Class 1
+ GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ KA017 Protective System Carry Case (dBAir)
+ dB001 dBAir Rubber Case

- Model NK102 dBAir Safety Managers System - Class 2
Includes:
+ GA241S dBAir Safety Class 2
+ GA601 Calibrator - Single Level, Class 2
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ KA017 Protective System Carry Case (dBAir)
+ dB001 dBAir Rubber Case

- Model NK103 dBAir Safety Managers System with Octaves - Class 1
Includes:
+ GA141SO dBAir Safety Octave (1/1) Class 1
+ GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For System
+ KA017 Protective System Carry Case (dBAir)
+ dB001 dBAir Rubber Case

- Model NK104 dBAir Safety Managers System with Octaves - Class 2
Includes
+ GA241SO dBAir Safety Octave (1/1) Class 2
+ GA601 Calibrator - Single Level, Class 2
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ KA017 Protective System Carry Case (dBAir)
+ dB001 dBAir Rubber Case

Handheld Environmental Systems

- Model NK105 dBAir Environmental Assessment System - Class 1
+ GA141E dBAir Environment Class 1
+ GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ KA017 Protective System Carry Case (dBAir)
+ dB001 dBAir Rubber Case

- Model NK106 dBAir Environmental Assessment System 1/3 Octaves - Class 1
Includes:
+ GA141EO dBAir Environmental Octave (1/3) Class 1
+ GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ KA017 Protective System Carry Case (dBAir)
+ dB001 dBAir Rubber Case

Outdoor Environmental Systems

- Model NK107 dBAir Environmental 48 Hour System - Class 1
BS4142:2014 Assessment System, Boundary Assessment System
Includes:
+ GA141E dBAir Environment Class 1
+ GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ MW404 Weatherproof Microphone Housing for dBAir
+ ZL2141-03 Weatherproof Microphone Cable for KA022 3m 1
+ KA022 Weatherproof Kit Case for dBAir (48 Hour)
+ KT102 Heavy Duty Tripod (Up to 1.6m high) 1

- Model NK108 dBAir Environmental 48 Hour System 1/3 Octaves - Class 1
Includes:
+ GA141EO dBAir Environmental Octave (1/3) Class 1
+ GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ MW404 Weatherproof Microphone Housing for dBAir
+ KA022 Weatherproof Kit Case for dBAir (48 Hour)
+ ZL2141-03 Weatherproof Microphone Cable for KA022 3m 1
+ KT102 Heavy Duty Tripod (Up to 1.6m high) 1

- Model NK116 dBAir Environmental 4 Day System - Class 1
Includes:
+ GA141E dBAir Environment Class 1
+ GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ MW404 Weatherproof Microphone Housing for dBAir
+ KA023 Weatherproof Kit Case for dBAir (4 Day)
+ ZL2141-03 Weatherproof Microphone Cable for KA022 3m 1
+ KT102 Heavy Duty Tripod (Up to 1.6m high) 1

- Model NK117 dBAir Environmental 4 Day System 1/3 Octaves - Class 1
Includes:
+ GA141EO dBAir Environmental Octave (1/3) Class 1
+ GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)

+ *CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)*
+ *MW404 Weatherproof Microphone Housing for dBAir*
+ *KA023 Weatherproof Kit Case for dBAir (4 Day)*
+ *ZL2141-03 Weatherproof Microphone Cable for KA022 3m 1*
+ *KT102 Heavy Duty Tripod (Up to 1.6m high) 1*

- Model NK118 dBAir Environmental 8 Day System - Class 1
Includes:
+ *GA141E dBAir Environment Class 1*
+ *GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)*
+ *CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)*
+ *MW404 Weatherproof Microphone Housing for dBAir*
+ *KA024 Weatherproof Kit Case for dBAir (8 Day)*
+ *ZL2141-03 Weatherproof Microphone Cable for KA022 3m 1*
+ *KT102 Heavy Duty Tripod (Up to 1.6m high) 1*

- Model NK119 dBAir Environmental 8 Day System 1/3 Octaves - Class 1
Includes:
+ *GA141EO dBAir Environmental Octave (1/3) Class 1*
+ *GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)*
+ *CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)*
+ *MW404 Weatherproof Microphone Housing for dBAir*
+ *KA024 Weatherproof Kit Case for dBAir (8 Day)*
+ *ZL2141-03 Weatherproof Microphone Cable for KA022 3m 1*
+ *KT102 Heavy Duty Tripod (Up to 1.6m high) 1*

- Model NK109 dBAir Environmental Long Term System with Back-up Battery
Includes:
+ *GA141E dBAir Environment Class 1*
+ *GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)*
+ *CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)*
+ *MW401 Weatherproof Preamp & Shield with de-humidifier (Pro-DX range)*
+ *KA022 Weatherproof Kit Case for dBAir (48 Hour)*
+ *ZL2141-03 Weatherproof Microphone Cable for KA022 3m 1*
+ *KT102 Heavy Duty Tripod (Up to 1.6m high) 1*

- Model NK110 dBAir Environmental Long Term System 1/3 Octaves with Back-up Battery
Includes:
+ *GA141EO dBAir Environmental Octave (1/3) Class 1*
+ *GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)*
+ *CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)*
+ *MW401 Weatherproof Preamp & Shield with de-humidifier (Pro-DX range)*
+ *KA022 Weatherproof Kit Case for dBAir (48 Hour)*
+ *ZL2141-03 Weatherproof Microphone Cable for KA022 3m 1*
+ *KT102 Heavy Duty Tripod (Up to 1.6m high) 1*

Handheld Safety & Environmental Systems

- Model NK111 dBAir Safety & Environmental Assessment System - Class 1
Includes:
+ GA141SE dBAir Safety & Environment Class 1
+ GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ dB001 dBAir Rubber Case

- Model NK112 dBAir Safety & Environmental Assessment System 1/3 Octaves - Class 1
Includes:
+ GA141SEO dBAir Safety & Environment Octave (1/1, 1/3) Class 1
+ GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ KA017 Protective System Carry Case (dBAir)
+ dB001 dBAir Rubber Case

-Model NK113 dBAir Safety & Environmental Assessment System - Class 2 EXPORT ONLY
Include:
+ GA241SE dBAir Safety & Environment Class 2
+ GA601 Calibrator - Single Level, Class 2
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ KA017 Protective System Carry Case (dBAir)
+ dB001 dBAir Rubber Case

Outdoor Safety & Environmental Systems

- Model NK114 dBAir Safety & Environmental Short Term System - Class 1
Includes:
+ GA141SE dBAir Safety & Environment Class 1
+ GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ MW404 Weatherproof Microphone Housing for dBAir
+ KA022 Weatherproof Kit Case for dBAir (48 Hour)
+ ZL2141-03 Weatherproof Microphone Cable for KA022 3m 1
+ KT102 Heavy Duty Tripod (Up to 1.6m high) 1

- Model NK115 dBAir Safety & Environmental Short Term System 1/1 & 1/3 Octaves - Class 1
Construction Assessment System, Railway Assessment System,
Consultants Assessment System(does not include tripod)
Includes:
+ GA141SEO dBAir Safety & Environment Octave (1/1, 1/3) Class 1
+ GA607 Calibrator, Dual Level, Class 1 (includes GA690 Barometer)
+ CCPROFREE FREE Pro Account for Castle Cloud - 5 Users (1 Year) (For Systems)
+ MW404 Weatherproof Microphone Housing for dBAir
+ KA022 Weatherproof Kit Case for dBAir (48 Hour)
+ ZL2141-03 Weatherproof Microphone Cable for KA022 3m 1
+ KT102 Heavy Duty Tripod (Up to 1.6m high) 1