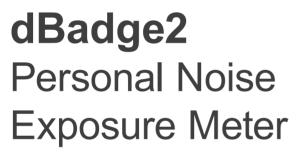


CASELLA

dBadge2



LAF ISO BE 12
LAF BE SE SE BE LCPK 115.0 dB

GBacqe2

Ideal for making noise exposure measurements, the dBadge2 is a shoulder worn dose meter that measures all workplace noise parameters simultaneously.

www.casellasolutions.com



dBadge2

Key Features

- Airwave software to check monitoring remotely
- Multiple 'simulated' dosimeters
- Full color display
- Motion Sensing
- 1 second time history profiling
- Pause function
- Measures all noise dose parameters simultaneously

Applications

- Complete shift exposure measurements
- Task based measurements
- Measurements in accordance with CFR 1910.95 (USA), ISO9612:2009, L108 Controlling Noise at Work.
- Selection of hearing protection



Intelligent display shows remaining hours of battery life and memory capacity



3 way chargers can be linked together and also act as a download station



Use Airwave software on a mobile device to remotely monitor multiple dosimeters, without disturbing the wearer.





Simultaneous Measurements

The dBadge2 has a 'multiple simulated dosimeter' capability to display noise exposure results according to differing regional or international protocols. Regardless of what you have displayed, the dBadge2 always measures all parameters together.

- Simultaneous measurement and storage of all noise dose parameters
- Helps ensure the correct parameters are always measured
- · Choose how many parameters to display

Simple Operation

With it's two button operation, the dBadge2 couldn't be easier to use. After switching the dBadge2 on, apply the acoustic calibrator and press one button to perform calibration. Then hold both keys down to start a measurement, it couldn't be simpler!

- Lockable keys and display
- Automatic detection of acoustic calibrator
- Color coded display
- Easy to mount on employees' shoulder

Intrinsically Safe

For use in flammable atmospheres, intrinsically safe models are available for potentially explosive areas such as in the oil and gas, petrochemical and mining industries.

Ex ia IIC T4 Ga

Ex ia IIIC T135°C Da

EX ia I Ma

Tamb: -20°C to +45°C

Advanced Features

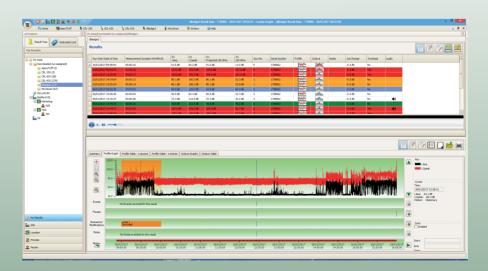
Different models of dBadge2 are available with advanced functions depending on your requirements.

- Audio notes at the start of a run to record measurement details
- Audio recording of level triggered events to identify anomalous noise
- Octave band analysis for the selection of hearing protection
- Motion sensing to assist in measurement validation



Downloading Data & Reporting

A Data Download Utility is free with measurement kits and downloads data to Excel, with automatic graphing of time history data. For more sophisticated data analysis and reporting Casella Insight can be purchased separately. Please refer to Casella Insight Data Sheet for more detail.



Technical Specification

Standards: ANSI S1.25:1991 R2007, IEC 61252 Ed 1.1 (2002-3)

Linear Operating Range: 55.0-140.3 dB (A) RMS

Peak Measurement Range: 90.0-143.3dB (C or Z weighted),

Sound Exposure Range: 0.0- 6,100.0 Pa2Hours

Frequency Weightings: A, C and Z, Type 2

Time Weightings: Fast, Slow and Impulse

Exchange Rate: Q=3 or Q=5dB exchange rates

Threshold and Criterion: 70-90dB in 1dB steps

Operating Temperature Range: 0°C to +40°C (for <±0.5dB error limit)

-10°C to +50°C (for <±0.8dB error limit)

Ambient Pressure Range: <±0.5dB over 85 - 112kPa,

Humidity Range: <± 0.5dB over 30% - 90% (non-condensing),

Storage Temperature Range: -10°C to +50°C,

Battery: Internal NiMH, 800mAH

Run Time: Typically 35 hours using Broadband Mode

Typically 15 hours using Octave mode

Charge Time: <6 Hours from fully discharged

Maximum Run Duration: 24 hours
Maximum number of Runs: 100

Storage Capacity: Internal USD Flash memory - 300 hours

of run data $\,$ (including 1 second profile data) and up to 90 minutes of event audio recording.

PC Interface: USB 2.0 Full speed 12Mbps via Docking Station.

Dimensions: 85L x 54W x 55H mm

Weight: 117g

Environmental I.P. Rating: IP65 (with permeable air vent)

Ordering Information

dBadge2	dBadge2 Personal Noise Dosimeter
dBadge2Plus	dBadge2 Plus Personal Noise Dosimeter with Audio Recording
dBadge2Pro	dBadge2 Pro Personal Noise Dosimeter with Audio Recording and Real-time Octave Band frequency analysis

All dBadge2 units come complete with a Field Guide and Calibration Certificate. Operation manuals are available to download. For Intrinsically Safe models add 'IS' after the "2" in the part number e.g. dBadge2ISPlus.

Instrument Kits

Instrument Kits are available in a kit case that holds up to 10 dBadge2 units. Kits also include the CEL-120/2 Acoustic Calibrator, docking station, USB download cable and data download utility.

Stored Data Sets

The dBadge2 simultaneously records and computes all noise data for every measurement run. The comprehensive set of data containing all of the below parameters is available to view and analyse within the Casella Insight PC application or using the download utility. The Dosimeter Set-ups D1, D2 and D3 define which parameters are displayed on the instrument itself but all values are automatically stored in the memory of the dBadge2 for download.

LAVE

TWA (8hr) Projected TWA 8hr
Dose% Proj Dose %

 L_{AEQ} L_{CEQ} L_{AIEQ}

 L_{EPd} / LEX, 8h Proj L_{EPd} /LEX, 8h

 L_{APk} + Time L_{CPk} + Time L_{ZPk} + Time

Pa2Hrs Pa2Secs

ISO Dose% (using ISO Criterion level)
ISO Proj Dose% (using ISO Criterion level)

Projected Exposure Points (using ISO Criterion level)

Exposure Points (using ISO Criterion level)

Exceedance time (LAS > Exceedance level)

HML (LC-LA)

 $L_{Cpk} > 135 \text{ (count)}$ $L_{Cpk} > 137 \text{ (count)}$ $L_{Cpk} > 140 \text{ (count)}$

 $\begin{array}{lll} L_{AFmx} + Time & L_{AFmin} + Time \\ L_{ASmx} + Time & L_{ASmin} + Time \\ L_{AImx} + Time & L_{AImin} + Time \end{array}$

LAF

Cumulative Motion Index (expressed as % motion detected during a measurement run)

Model Selection

	dBadge 2	dBadge2	dBadge2
H-M-L (C-A)	•	•	•
Programmable delay timer	•	•	•
Fixed run timer	•	•	•
Pause function	•	•	•
Wireless*	•	•	•
Time history	•	•	•
Audio recording		•	•
Octave band			•

^{*}Bluetooth 'Smart' Wireless may be disabled in any version using the USB utility App

SM0415 V3

Authorised distributor

Order Placement:

For customer service, call 1300-735-292
To fax an order, use 1800-067-639
To email an order, ordersau@thermofisher.com

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For service and calibration, call 1300-736-767
To order online: thermofisher.com

