

CASELLA

dBadge2

dBadge2 Personal Noise Exposure Meter

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



Intelligent display shows remaining hours of battery life and memory capacity

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



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.



Start, stop and monitor the dosimeter remotely via an iOS or Android device.

(Airwave is available free in the Apple App Store and Google Play Store)

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.

L _{AvG}		
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 (L _{AS} > Exceedance level)		
HML (LC-LA)		
L _{CPk} >135 (count)	L _{CPk} >137 (count)	L _{CPk} >140 (count)
L _{AFmx} + Time	L _{AFmin} + Time	
L _{ASmx} + Time	L _{ASmin} + Time	
L _{Almx} + Time	L _{Almin} + Time	
L _{AE}		
Cumulative Motion Index (expressed as % motion detected during a measurement run).		

Model Selection

	<i>dBadge2</i>	<i>dBadge2</i> <small>PLUS</small>	<i>dBadge2</i> <small>PRO</small>
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

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