Now includes noisetools

Cirrus doseBadge
The original wireless noise dosimeter

CR:110A doseBadge® Personal Noise Dosimeter

Key Features of the doseBadge®

- Measures & stores the essential Noise at Work noise parameters
- Very simple operation
- Compact, rugged design weighs only 51g
- Time history data stored as standard
- Robust metal case prevents damage & servicing costs
- No external controls, cables or displays reduces damage, tampering or misuse
- NoiseTools Analysis & Reporting software with licence-free installation & free lifetime updates
- 90 minute (typical) charge time with 30 hours (typical) battery life
- Intrinsically safe version available with ATEX, EEx, IECEx & FM Certification for hazardous atmospheres

Everything you need for Noise at Work

The doseBadge is the original wireless personal noise dosemeter and is the ideal instrument for personal noise exposure measurements.

The doseBadge will measure, store and calculate the parameters essential for compliance with the Noise at Work Regulations including L_{Aeq}, L_{CPeak} & $L_{EP,d}$. Along with these overall values, the doseBadge will store a Time History, or Noise Profile, throughout the measurement.

The doseBadge survives in the toughest environments

The doseBadge has been designed to survive use in the toughest and harshest environments.

There are no cables, controls or displays to damage and the microphone, battery and electronics are all housed in a robust and lightweight metal case which is strong enough to withstand being dropped, knocked or even stood on.

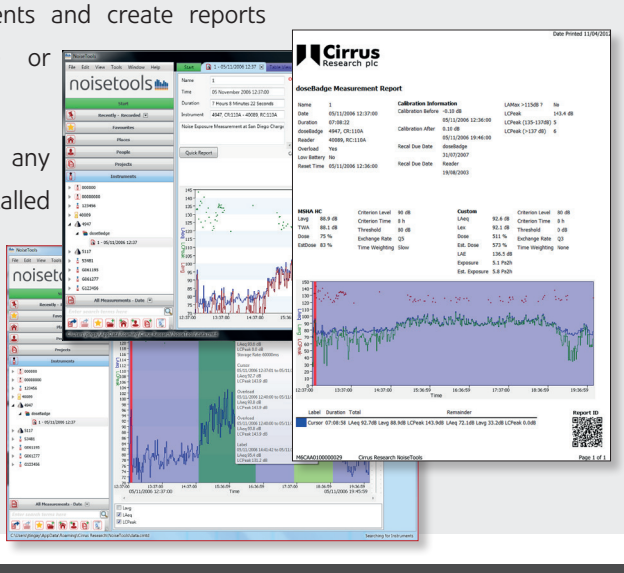
Create measurement reports quickly and simply

The NoiseTools software is supplied with the doseBadge and this software has been designed to be simple to use and give you the information you really need without being complicated or complex.

Simply download your measurements and create reports quickly and easily with simple or comprehensive options available.

NoiseTools is supplied free from any licencing restrictions and can be installed onto as many PC's as needed without having to purchase additional copies.

Updates for NoiseTools are available free of charge from the Cirrus website.



Ordering Information & Specifications

doseBadge Measurement Kits

The doseBadge is available as a complete measurement kit with either standard or Intrinsically Safe doseBadge units.

Standard Kit	Intrinsically Safe Kit	Black Case doseBadge Kit	Contents
CK:110A/1	CK:110AIS/1	CK:110A/1-BLK	doseBadge Measurement Kit with 1 doseBadge & 5 way charger
CK:110A/2	CK:110AIS/2	CK:110A/2-BLK	doseBadge Measurement Kit with 2 doseBadges & 5 way charger
CK:110A/3	CK:110AIS/3	CK:110A/3-BLK	doseBadge Measurement Kit with 3 doseBadges & 5 way charger
CK:110A/5	CK:110AIS/5	CK:110A/5-BLK	doseBadge Measurement Kit with 5 doseBadges & 5 way charger
CK:110A/10	CK:110AIS/10	CK:110A/10-BLK	doseBadge Measurement Kit with 10 doseBadges & 2 x 5 way chargers

A doseBadge measurement kits includes:

- CR:110A, CR:110AIS or CR:110A-BLK doseBadges as appropriate
- RC:110A Reader Unit
- CK:100 Carrying Case
- Mounting Kits for each doseBadge
- CU:195A Mains Power Supply (with UK, EU or US style plug)
- NoiseTools Software CD
- User Manual & Quick Start Guide
- ZL:102 USB Data Cable
- Certificates of Calibration
- Batteries for the doseBadge Reader

Optional Accessories

UA:110 doseBadge Windshield

RC:101A Keyfob Remote Control

CM:100/A Type A Helmet Mount

CM:100/E Type E Helmet Mount

CM:100/H Type H Helmet Mount

Specifications*

Applicable Standards
IEC 61252:1993 Personal Sound Exposure Meters
ANSI S1.25:1991 Personal Noise Dosemeters Class Designation 2AS-90/80-5
RC:110A: Internal Acoustic Calibrator to IEC 60942:2003 Class 2

Measurement Range (Typical)
70dB(A) to 130dB(A) RMS, 120dB(C) to 140dB(C) Peak

Measurement Functions
Overall Measurement Data
doseBadge Configuration (Badge Serial Number, Date & Time)
Calibration Record
Measurement Duration
Highest Peak(C) Sound Level during the measurement
Overload Exceedence
115dB(A) Maximum Sound Level Exceedence
Battery Status

LAeq, LEX,8h, LAE, % Dose, Exposure (Pa2h)
Estimated % Dose, Estimated Exposure (Pa2h)

1 Minute Time History of:
LAeq, Peak(C) Level & Battery Level

Frequency Weightings
'A' for all RMS measurements
'C' for Peak Sound Pressure

Configuration Options
Channel 1: Independent User Configuration of:
Exchange Rate: 3dB, 4dB or 5dB
Criterion Level: 80dB, 85dB, 90dB
Criterion Time: 8hrs, 12hrs, 16hrs, 18hrs
Threshold: None, 80dB, 90dB
Time Weighting: None, 'S' (Slow)

Channel 2: Preset to
Exchange Rate:3dB
Criterion Level: 85dB
Criterion Time: 8hrs
Threshold: None
Time Weighting: None

Memory
CR:110A doseBadge
The CR:110A doseBadge can store up to 24 hours of data in a single measurement
RC:110A Reader
Up to 999 Individual doseBadge Measurements

Power
RC:110A doseBadge
Internal NiMH Battery. Typical Battery Life 30 hours @ 80dB
RC:110A Reader
2 x AA/LR6 with Auto Power Switch Off
CU Series Chargers
CU:195A Mains Power Supply. Fast Charge Option

Output
CR:110A doseBadge
Wireless Infrared to RC:110A Reader Unit
RC:110A Reader
USB 2.0 (which also provides power to the RC:110A Reader)

Dimensions
CR:110A doseBadge
Microphone Apex Ø13.0mm, Base Ø47mm, Height 38mm

Weight

CR:110A doseBadge	51g (1.8oz)
RC:110A Reader	400g (14oz)

Temperature
-10°C to +50°C Operating
-20°C to +60°C Storage
Humidity
Up to 95% RH Non-Condensing

Software
NoiseTools software supplied as standard with license free installation and free of charge upgrades available from the Cirrus website

* The specifications shown in this datasheet are a summary of the overall specifications for the doseBadge Noise Dosemeter. Full details are available on request or from the Cirrus website.

Intrinsic Safety Certification

The CR:110AIS Intrinsically Safe version of the doseBadge is available meeting the requirements of ATEX, EEx, IECEx and FM.

Full details of the certifications and the the certification documents are available for download from the Cirrus Research plc website or on request

Cirrus Research plc
dedicated to noise measurement

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FM 531001 EMS 552104

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