

## doseBadge Intrinsically Safe Noise Dosimeter



### Features

- Intrinsically safe noise dosimeter
- MSHA or FM approvals
- Strong metal case
- Shoulder mounted
- Measures noise exposure

### Applications

- Petrochemical and mining industries
- Hazardous and potentially explosive atmospheres
- Occupational noise surveys
- Noise dosimetry
- Hearing protection

### Overview

This is the intrinsically safe version of the doseBadge Noise Dosimeter. With approvals for use in potentially explosive environments, as found in the mining and petrochemical industries, the doseBadge mounts on a worker's shoulder and continuously measures the noise dose.

At the end of the work shift the doseBadge noise dosimeter calculates the noise exposure (dose %). Using the software, which is included, you can produce useful occupational noise reports, including a graph of the sound level over time so you can see when any high sound levels occur.

The noise measurements kit (order codes start CK) include doseBadges, a Calibrator, software, everything that you need to make noise assessments.

### Intrinsically Safe



The CR110AIS and CR112AIS versions of the doseBadge are approved for use in hazardous and potentially explosive atmospheres, making them ideal for the petrochemical industry and underground mining.

The CK112AIS/x kits have MSHA approval, for use in the mining industry, following the OSHA noise measurement regulations. The CR110AIS/x kits have FM approval for other applications. See the **IS Approvals** tab for more information on intrinsic safety approvals.

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### Specifications

#### Specifications

Standards	ANSI S1.25:1991 Personal Noise Dosimeters Class Designation 2AS-90/80-5 IEC 61252:1993 Personal Sound Exposure Meters Reader's Acoustic Calibrator to IEC 60942:2003 Class 2
Range	70 dB(A) to 130 dB(A) RMS 120 dB(C) to 140 dB(C) Peak
Stored Functions	doseBadge Settings, Calibration Record Measurement Duration, Highest Peak (C) Sound Level Overload Exceedance, Battery Status 115 dB(A) Maximum Sound Level Exceedance 1 Minute Time History of: Lavg (OSHA version), LAeq (NIOSH version), Peak Level, Battery Level Lavg or LAeq, TWA, % Dose, Estimated % Dose
Weightings	"A" for all RMS measurements.  "C" for Peak Sound Pressure
Configuration	(second channel on NIOSH model) Exchange Rate (3dB, 4dB or 5dB) Criterion Level (80dB, 85dB, 87dB, 90dB) Criterion Time (8hrs, 12hrs, 16hrs, 18hrs) Threshold (None, 80dB, 85dB, 90dB) Time Weighting (None, Slow)

#### Physical Properties

Memory	CR:110A doseBadge: up to 24 hours of data in a single measurement RC:110A Reader: up to 999 individual doseBadge measurements
Power	doseBadge: NiMH rechargeable battery Reader: 2 x AA/LR6 with auto power switch off CU:195A Mains Power Supply with UK, EU or US plug
Outputs	doseBadge: Infrared to RC:110A Reader Unit Reader: USB 2.0 to computer
Dimensions	Mic. Apex Ø 0.5", Base Ø 1.8", Height 1.5"
Weight	doseBadge: 1.6oz Reader: 14oz
Temperature	14°F to +122°F Operating  -4°F to 140°F Storage
Humidity	Up to 95%RH Non-Condensing

#### Head Office

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#### Web Sites

Main site:  
<https://www.noisemeters.com>

Product shortcut:  
<https://www.noisemeters.com/product/cr/dosebadge/intrinsically-safe/>

Tech Support:  
<https://support.noisemeters.com>