



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit www.iecex.com

Certificate No.: IECEX SIM 07.0004X issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2007-07-09** Page 1 of 4

Applicant: **Cirrus Research plc**
Acoustic House
Bridlington Road, Hunmanby
NORTH YORKSHIRE YO14 0PH
United Kingdom

Electrical Apparatus: **Noise doseBadge CR:110AIS**
Optional accessory:

Type of Protection: **ia**

Marking: **Ex ia I -20°C ≤ T_a ≤ +60°C**
IECEX SIM 07.0004X

Approved for issue on behalf of the IECEX
Certification Body: Ashraf Chowdhury

Position: Principal Engineer - Certification

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:
Safety in Mines Testing and Research Station (Simtars)
2 Smith Street
REDBANK QLD 4301
Australia





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Manufacturer: **Cirrus Research plc**
Acoustic House
Bridlington Road Hunmanby
NORTH YORKSHIRE YO14 0PH
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacture's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/BAS/ExTR06.0139/00
GB/BAS/ExTR07.0077/00

Quality Assessment Report:
GB/BAS/QAR07.0006/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Noise doseBadge CR:110AIS is designed as a portable unit for measuring personal noise exposure. The apparatus comprises an electret microphone, analogue and digital circuit boards using surface mounted components, charging sockets and is powered by four Varta V40H NiMH rechargeable button cells. The electronics is housed in a cast brass enclosure, which has a clear resin communication window. Recording of the noise dose is started and stopped remotely and the stored data may be downloaded in a Safe Area via infra red transmitter and receiver components located in the apparatus housing.

CONDITIONS OF CERTIFICATION: YES as shown below:

In order to maintain the degree of protection rating of IP54, the sealing base plate must be fitted to the charging socket of the apparatus in service.

Unspecified external devices used to communicate with the apparatus, must be used in a Safe Area unless such devices are certified for use within a potentially explosive atmosphere.



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Additional information:

The batteries shall only be recharged, removed or replaced in a non-hazardous area.

The following parameters apply to the apparatus:

Unspecified optical communication equipment: $U_m = 250 \text{ V}$

Charging socket:

$U_0 = 6.4 \text{ V}$ $U_i = 10 \text{ V}$

$I_0 = 31 \text{ mA}$ $I_i = 30 \text{ mA}$

$C_i = 0$

$L_i = 0$

Annexe: IECEx SIM 07.0004X-0 Annex.pdf