

INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification Scheme for Explosive Atmospheres**

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

Certificate No.:

IECEx BAS 06.0083X

Issue No.: 0

Status:

Current

Date of Issue:

2007-01-17

Page 1 of 3

Applicant:

Cirrus Research plc

Hunmanby, North Yorkshire, YO14 0PH **United Kingdom**

Electrical Apparatus: Noise doseBadge CR:110AIS

Optional accessory:

Type of Protection:

Intrinsic Safety

Marking:

Ex ia I

 $(-20^{\circ}C \le Ta \le +60^{\circ}C)$

Approved for issue on behalf of the IECEx

Certification Body:

R S Sinclair

Position:

Signature:

(for printed version)

Date:

Managing Director

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.

Certificate issued by:

Baseefa (2001) Ltd.

Rockhead Business Park Staden Lane **Buxton** Derbyshire SK17 9RZ United Kingdom





Certificate No.:

IECEx BAS 06.0083X

Date of Issue:

2007-01-17

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Manufacturer:

Cirrus Research plc

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'rs 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

Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Edition: 4.0

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

Quality Assessment Report:

GB/BAS/QAR07.0006/00



Certificate No.:

IECEX BAS 06.0083X

Date of Issue:

2007-01-17

Issue No.: 0

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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 noise dosemeter unit, which measures and records personal noise exposure and is suitable for attaching to any suitable surface.

The Noise doseBadge CR:110AlS comprises an electret microphone, analogue and digital electronic circuit boards using surface mounted components and is powered by four internal NiMH rechargable button cells. The circuit boards are mounted within a cast brass enclosure, which has a clear resin communications window and a charging socket and is provided with a number of alternative passive attachment accessories. The enclosure with the Sealing Base Plate fitted provides a degree of protection of at least IP54 to the electrical circuit.

Recording the noise dose is started and stopped remotely and the stored data may be downloaded in the safe area via infra red Transmitter and Receiver components located behind a communication window in the casting of the Noise doseBadge. This requires the use of unspecified external communication devices and must only be done within a Safe Area, unless the external communication equipment is certified for use within a hazardous area. If the unit is not used for a period of one hour the circuit will shut down, but will restart by shaking.

The Noise doseBadge must only be recharged within a Safe Area.

Communication Window

Unspecified Optical Communication equipment containing U_M = 250V

Charging Socket

 $U_0 = 6.4V$

 $U_i = 10V$

 $l_0 = 31 \text{mA}$

i, = 30mA

 $C_i = 0$

 $L_i = 0$

CONDITIONS OF CERTIFICATION: YES as shown below:

The Sealing Base Plate must be fitted to the charging socket in service, to ensure that a degree of protection against the ingress of dust and moisture of at least IP54 is maintained.



INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.:

IECEx BAS 06.0083X

issue No.:1

History:

Issue No. 1 (2007-6-18)

Status:

Current

Issue No. 0 (2007-1-17)

Date of Issue:

2007-06-18

Page 1 of 4

Applicant:

Cirrus Research plc

Hunmanby, North Yorkshire, YO14 0PH United Kingdom

Electrical Apparatus:

Noise doseBadge CR:110AiS

Optional accessory:

Type of Protection:

Intrinsic Safety

Marking:

Ex ia i

 $(-20^{\circ}C \le Ta \le +60^{\circ}C)$

Approved for issue on behalf of the IECEx

Certification Body:

R S Sinclair

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Certificate issued by:

Baseefa (2001) Ltd.
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





Certificate No.: IECEx BAS 06.0083X

Date of Issue: 2007-06-18 Issue No.: 1

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Manufacturer: Cirrus Research plc

Hunmanby, North Yorkshire, YO14 0PH United Kingdom

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Edition: 4

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



Certificate No.:

IECEX BAS 06.0083X

Date of Issue:

2007-06-18

Issue No · 1

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Schedule

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

To permit the use of an alternative Certification label.

ExTR: GB/BAS/ExTR07.0077/00 File Reference: 07/0459