



# 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](http://www.iecex.com)

Certificate No.: **IECEx BAS 06.0084** 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 IIC T4**  
**(-20°C ≤ T<sub>a</sub> ≤ +60°C)**


*Approved for issue on behalf of the IECEx  
Certification Body:*

R S Sinclair

*Position:*

Managing Director

*Signature:*  
*(for printed version)*

  
23-1-07

*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:

**Baseefa (2001) Ltd.**

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





# IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 06.0084**

Date of Issue: **2007-01-17**

Issue No.: **0**

Page 2 of 3

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'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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 1999</b> 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



# IECEX Certificate of Conformity

Certificate No.: IECEx BAS 06.0084

Date of Issue: 2007-01-17

Issue No.: 0

Page 3 of 3

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Noise doseBadge CR:110AIS is designed as a portable noise dosimeter unit, which measures and records personal noise exposure and is suitable for attaching to any suitable surface.

The Noise doseBadge CR:110AIS comprises an electret microphone, analogue and digital electronic circuit boards using surface mounted components and is powered by four internal NiMH rechargeable 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 casing 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

$U_o = 6.4V$

$U_i = 10V$

$I_o = 31mA$

$I_i = 30mA$

$C_i = 0$

$L_i = 0$

**CONDITIONS OF CERTIFICATION: NO**



# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 06.0084      issue No.:1      History:  
Status: **Current**      Issue No. 1 (2007-6-18)  
Date of Issue: **2007-06-18**      Page 1 of 4      Issue No. 0 (2007-1-17)

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 IIC T4**  
**(-20°C ≤ T<sub>a</sub> ≤ +60°C)**

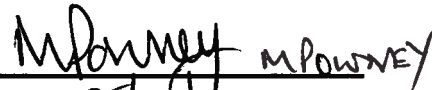
Approved for issue on behalf of the IECEx  
Certification Body:

 P S Sinclair

Position:

Managing Director

Signature:  
(for printed version)

  
18/6/07

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:

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





# IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 06.0084**

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

Page 2 of 4

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 manufacturer'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** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition: 4.0

**IEC 60079-11 : 1999** Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'  
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



# IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 06.0084**

Date of Issue: **2007-06-18**

Issue No.: **1**

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Noise doseBadge CR:110AIS is designed as a portable noise dosimeter unit, which measures and records personal noise exposure and is suitable for attaching to any suitable surface.

The Noise doseBadge CR:110AIS comprises an electret microphone, analogue and digital electronic circuit boards using surface mounted components and is powered by four internal NiMH rechargeable 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 casing 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

$U_o = 6.4V$

$U_i = 10V$

$I_o = 31mA$

$I_i = 30mA$

$C_i = 0$

$L_i = 0$

**CONDITIONS OF CERTIFICATION: NO**



# IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 06.0084**

Date of Issue: **2007-06-18**

Issue No.: **1**

Page 4 of 4

## 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**