



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEX BAS 06.0083X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2018-03-20)
Date of Issue:	2022-04-04		Issue 1 (2007-06-18)
Applicant:	Cirrus Research plc Hunmanby North Yorkshire YO14 0PH United Kingdom		Issue 0 (2007-01-17)
Equipment:	Noise doseBadge CR:110AIS		
Optional accessory:			
Type of Protection:	Intrinsic Safety		
Marking:	Ex ia I (-20 °C ≤ Ta ≤ +60 °C)		

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)

Date:
(for printed version)

4/4/2022

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 www.iecex.com or use of this QR Code.



Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom





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Manufacturer: **Cirrus Research plc**
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Manufacturing locations: **Cirrus Research plc**
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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 Reports:

[GB/BAS/ExTR06.0139/00](#)
[GB/BAS/ExTR21.0088/00](#)

[GB/BAS/ExTR07.0077/00](#)

[GB/BAS/ExTR18.0058/00](#)

Quality Assessment Report:

[GB/BAS/QAR07.0006/09](#)



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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 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

$U_o = 6.4V$

$U_i = 10V$

$I_o = 31mA$

$I_i = 30mA$

$C_i = 0$

$L_i = 0$

SPECIFIC CONDITIONS OF USE: 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.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 3.1

To permit a standards update to the current editions of the standards as appropriate.

Variation 3.2

Drawing updates to permit other certification marks not impacting the assessment associated with this certificate.

ExTR: **GB/BAS/ExTR21.0088/00**

File Reference: **21/0344**