

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**  
**UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 UK-Type Examination Certificate Number: **BAS21UKEX0375X**

4 Product: **Noise doseBadge CR:110AIS**

5 Manufacturer: **Cirrus Research plc.**

6 Address: **Acoustic House, Bridlington Road, Hunmanby, North Yorkshire, YO14 0PH**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR21.0088/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:


**EN IEC 60079-0:2018 EN 60079-11: 2012**

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following :

 **I M1 Ex ia I Ma (-20 °C ≤ Ta ≤ +60 °C)**

SGS Baseefa Customer Reference No. **4323**

Project File No. **21/0344**

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**R S SINCLAIR**  
**TECHNICAL MANAGER**  
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number BAS21UKEX0375X**

15 **Description of Product**

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 comprises an electret microphone, analogue and digital electronic circuit boards using surface mounted components and is powered by internal NiMH rechargeable button cells. The circuit boards are mounted within a cast brass enclosure, which is provided with a communications window and a charging socket and is provided with a number of alternative attachment accessories. The enclosure provides a degree of protection of at least IP20 to the electrical circuit.

Recording the noise dose is started and stopped remotely and the stored data downloaded 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

$U_o = 6.4V$                        $U_i = 10V$   
 $I_o = 31mA$                       $I_i = 30mA$   
 $C_i = 0$   
 $L_i = 0$

16 **Report Number**

GB/BAS/ExTR21.0088/00

17 **Specific Conditions of Use**

1. 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.

18 **Essential Health and Safety Requirements**

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
13	LVD type requirements
14	Overloading of equipment (protection relays, etc.)
21 (1)	External effects
21 (2)	Aggressive substances, etc.

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**19 Drawings and Documents**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
IPD-1113-01-IV	1 of 1	E	03/11/20	Casting
IAW-1137-01-M	1 of 1	F	06-01-22	Certification Label
IAW-1113-01-MR	1 of 1	B	06-01-2022	Alternative Certification Label (for other approvals)

For a complete drawing list refer to certificates IECEx BAS 06.0083X Issue 3 and Baseefa04ATEX0331X Issue 5.

The drawings are common to IECEx BAS 06.0083X and Baseefa04ATEX0331X. The drawings are held with IECEx BAS 06.0083X.