



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa04ATEX0331X**

4 Equipment or Protective System: **Noise doseBadge CR:110AIS**

5 Manufacturer: **Cirrus Research plc.**

6 Address: **Hunmanby, North Yorkshire, YO14 0PH**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa (2001) Ltd., Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **04(C)0680**

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

EN 50014: 1997 + Amd 1 & 2

EN 50020: 2002

EN 50303: 2000

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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

⊕ I M1 EEx ia I (-20°C ≤ T_a ≤ +40°C)

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. 4323

Project File No. 04/0680

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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R S SINCLAIR

DIRECTOR
On behalf of
Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number Baseefa04ATEX0331X

15 Description of Equipment or Protective System

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, 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 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

04(C)0680

17 Special Conditions for Safe 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

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
ICD-1137-01-C	1	C	14/02/2005	Circuit Diagram
IPL-1137-01-G	1	C	11/04/2005	Parts List
IPL-1137-01-G	2	C	11/04/2005	Parts List



Number	Sheet	Issue	Date	Description
IPD-1137-01-K	1	B	01/10/2004	Battery Assembly
IPD-1137-01-J	1	B	01/10/2004	Casting
IPD-1137-01-L	1	C	11/05/2005	Constructional Detail
IAW-1137-01-M	1	B	20/09/2004	Certification Label
IPD-1113-01-IH	1	B	01/10/2004	Battery enclosure
IPD-1113-01-IX	1	B	01/10/2004	Case Gasket
IPD-1113-01-JA	1	C	05/04/2004	Sealing Baseplate
IPD-1113-01-JS	1	A	05/04/2005	Sealing Baseplate Label
IPD-1113-01-JB	1	B	01/10/2004	Exploded View
IK-1113-01-IY	1	C	14/02/2005	Track Layout Bottom Copper
IJ-1113-01-IY	1	C	14/02/2005	Track Layout Bottom Inner Copper
IH-1113-01-IY	1	C	14/02/2005	Track Layout Top Inner Copper
IG-1113-01-IY	1	C	14/02/2005	Track Layout Top Copper
IM-1113-01-IY	1	C	14/02/2005	Top Solder Mask
IN-1113-01-IY	1	C	14/02/2005	Bottom Solder Mask
IT-1113-01-IY	1	C	14/02/2005	Component Layout Top
IB-1113-01-IY	1	C	14/02/2005	Component Layout Bottom
ID-1113-01-IY	1	C	14/02/2005	Drill and Routing

The above drawings are common to, and held on, Baseefa04ATEX0330.