



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: **BAS00ATEX1259X – Issue 3**

4 Equipment or Protective System: **Sounders Type DB5 and DB51**

5 Manufacturer: **Cooper MEDC Limited**

6 Address: **Pinxton, Nottingham, NG16 6JF**

7 This re-issued certificate extends EC – Type Examination Certificate No. BAS00ATEX1259 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa, Notified Body Number 1180, is responsible only for the additional work relating to this re-issued certificate and any other supplementary certificate it has issued.

The examination and test results are recorded in confidential Report No's:
GB/BAS/ExTR08.0089 & GB/BAS-ExTR09.0145

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

EN 60079-0:2006 EN 60079-11:2007 EN60079-26:2007

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 :

Ex ia IIC T4 Ga (-20°C to +55°C)

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

Baseefa Customer Reference No. **0676**

Project File No. **07/1025**

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

Baseefa

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number BAS00ATEX1259X – Issue 3

15 Description of Equipment or Protective System

The Sounder Types DB5 & DB51 are designed to produce an audio signal.

The sounders comprise an electronic circuit on a printed circuit board and an inductive sounder device. The PCB is potted into a plastic enclosure which is mounted into a plastic base which forms a terminal enclosure.

Sounder DB5

U_i	= 28V
I_i	= 28mA
P_i	= 810mW
C_i	= 0
L_i	= 20mH + 1000 Ω
L_i / R_i	= 20 μ H/ Ω

The DB5 sounder has internal resistance that limits the input current to 28mA when connected to a 28V source, so may be connected to power sources having an output current (I_o) greater than 28mA but not exceeding 150mA without compromising safety.

An optional end-of-line resistor may be connected across the input terminals.

Sounder DB51

U_i	= 15.7V
I_i	= 37mA
P_i	= 560mW
C_i	= 0
L_i	= 20mH
R_i	= 325 Ω
L_i / R_i	= 61.5 μ H/ Ω

The DB51 sounder has internal resistance that limits the input current to 37mA when connected to a 15.7V source, so may be connected to power sources having an output current (I_o) greater than 37mA but not exceeding 150mA without compromising safety. The DB51 must be powered from a resistively limited source.

An optional end-of-line resistor may be connected across the input terminals.

16 Report Number

GB/BAS/ExTR08.0089/00 & GB/BAS/ExTR08.0145/00

17 Special Conditions for Safe Use

1. By virtue of its shape, design and position of intended use, it is considered not to be an electrostatic risk, however the apparatus must not be installed in a position where it may be subjected to an excessive dust laden airflow.
2. The equipment must only be cleaned using a damp cloth.



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

New drawings submitted for this variation.

Number	Sheet	Issue	Date	Description
131-178 *	1	B	13-10-09	"Fulleon" Transducer
187-250	1	A	26-06-09	DB5 ATEX Certification GA
187-182 LO *	1	E	06-08-09	DB5 DC PCB Artwork
187-182 SS1 *	1	E	06-08-09	DB5 DC PCB Artwork
187-182 SS2 *	1	E	06-08-09	DB5 DC PCB Artwork
187-251	1	A	07-08-09	DB5 ATEX Certification Label
187-252	1	A	07-08-09	DB51 ATEX Certification Label

Note* - These drawings are held with IECEx BAS08.0043X

Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
187-180 **	1	B	06/08/01	Certification Circuit Diagram DB5 New Tones Chip
187-184 **	1	B	06/08/01	Certification Circuit Diagram DB51 New Tones Chip

Note** - These drawings have previously been stamped for existing variations to this certificate, and separate copies are also held with IECEx BAS08.0043X

Drawing 187-233 is now obsolete.

20 Certificate History

Certificate No.	Date	Comments
BAS00ATEX1259	1 March 2001	The release of the prime certificate. The associated test and assessment is documented in Test Report 00(C)0771.
BAS00ATEX1259/1	17 October 2001	To permit the addition of a component and related PCB changes that do not affect the intrinsic safety assessment.
BAS00ATEX1259/2	3 April 2006	To permit the use of an alternative label for the DB5.
BAS00ATEX1259X Issue 3	21 December 2009	To permit the use of a revised label. A certificate suffix X has been added to address anti-static requirements of the latest standards. This issue incorporates previously issued primary and supplementary certificates into one certificate, permits marking changes and confirms that the current design meets the requirements of EN 60079-0:2006, EN 60079-11:2007 and EN 60079-26:2007. In addition the marking is considered to comply with the markings of EN 60079-0:2009.

For drawings applicable to each issue, see original of that issue.