



1 SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

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

3 Supplementary EC - Type Examination Certificate Number: Baseefa04ATEX0133X/3

4 Equipment or Protective System: BLACK PLASTIC ENCLOSURES TYPE 'HOTBOX', COMPLETE WITH SENSOR CIRCUITS

5 Manufacturer: Don Electronic Limited

6 Address: Westfield Industrial Estate, Kirk Lane, Yeadon, Leeds, LS19 7LX

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0133X 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.

This supplementary certificate shall be held with the original certificate.

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

Baseefa Customer Reference No. 4340

Project File No. 11/0052

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.

A handwritten signature in black ink, appearing to read "R S Sinclair".

Baseefa

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Baseefa is a trading name of Baseefa Ltd

Registered in England No. 4305578. Registered address as above.

R S SINCLAIR

DIRECTOR
On behalf of
Baseefa



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Schedule

14

Certificate Number Baseefa04ATEX0133X/3

15 Description of the variation to the Equipment or Protective System

Variation 3.1

To add minor drawing modifications.

16 Report Number

GB/BAS/ExTR11.0026/00

17 Special Conditions for Safe Use

None additional to those listed previously

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Issue	Date	Description
WE2004797-4	1	02/11/06	Hotbox node ATEX schematic Zone 21

This drawing is common to and held on IECEx BAS 05.0025X



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa04ATEX0133X/2**

4 Equipment or Protective System: **BLACK PLASTIC ENCLOSURES TYPE 'HOTBOX', COMPLETE WITH SENSOR CIRCUITS**

5 Manufacturer: **WHEAT ELECTRONICS LIMITED**

6 Address: **Unit 4 108 Hookstone Chase, Harrogate, North Yorkshire, HG2 7HS**

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Baseefa Customer Reference No. 4340

Project File No. 05/0428

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Schedule

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Certificate Number Baseefa04ATEX0133X/2

15 **Description of the variation to the Equipment or Protective System**

Variation 2.1

To update label artwork.

16 **Report Number**

None

17 **Special Conditions for Safe Use**

None additional to those listed previously

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Issue	Date	Description
*WE2004797-1	2	14/06/05	Hotbox label

* This drawing is common to and held on Baseefa04ATEX0132X



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4 Equipment or Protective System: BLACK PLASTIC ENCLOSURES TYPE 'HOTBOX', COMPLETE WITH SENSOR CIRCUITS

5 Manufacturer: WHEAT ELECTRONICS LIMITED

6 Address: Unit 4, 108 Hookstone Chase, Harrogate, North Yorkshire, HG2 7HS

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa04ATEX0132X 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.

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Baseefa Customer Reference No. 4340

Project File No. 04/0834

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Schedule

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Certificate Number Baseefa04ATEX0133X/1

15 **Description of the variation to the Equipment or Protective System**

Variation 1.1

To allow the 'Hotbox' to be used as a terminal enclosure, with direct mounted or rail mounted terminal connections. For this arrangement the maximum dissipated power within the enclosure is 12 Watts.

16 **Report Number**

None

17 **Special Conditions for Safe Use**

As listed previously where applicable, and as follows:

1. Cable entries must be fitted with a Hawke type 375 or 387 component certified stopping plug, or a suitable apparatus certified stopping plug, or a suitably certified cable gland, that maintains the IP rating of the enclosure.

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

None



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3 EC - Type Examination Certificate Number: **Baseefa04ATEX0133X**

4 Equipment or Protective System: **BLACK PLASTIC ENCLOSURE TYPE 'HOTBOX', COMPLETE WITH
SENSOR CIRCUITS**

5 Manufacturer: **WHEAT ELECTRONICS LIMITED**

6 Address: **Unit 4, 108 Hookstone Chase, Harrogate, North Yorkshire, HG2 7HS**

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)0291-2**

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

EN50281-1-1:1998 + amd. 1

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) II 2D T125°C T_{amb} -20°C to 50°C

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Baseefa (2001) Ltd. Customer Reference No. **4340**

Project File No. **04/0291**

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Schedule

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Certificate Number Baseefa04ATEX0133X

15 Description of Equipment or Protective System

The enclosure, Type HOTBOX, is 212mm x 60mm x 124mm.

The enclosure is manufactured in black plastic. The enclosure consists of a body and lid complete with sponge cord gasket that is fitted in a rectangular groove within the lid. The lid is secured to the body by four M5 x 60 long stainless steel screws that thread into an M5 metallic insert which is held in a recessed hole in the body. On the inside of the base of the body there are four raised bosses each with a blind hole to allow the securing of internal components by the use of self tapping screws. The enclosure has an ingress protection rating of IP66.

The enclosures may be fitted with one or more sensor circuits with a variety of different functions and circuit options. There must be a minimum of 5mm between the components and the enclosure wall.

The Maximum Power Dissipation for the enclosure is 6 Watts per circuit with each circuit within the enclosure being protected by a combination of fuse and zener diodes. The zener diode has a voltage rating which is selected to be as close as possible to the supply voltage.

16 Report Number

04(C)0291-2

17 Special Conditions for Safe Use

1. These sensors are not suitable for mounting where they will be exposed to direct sunlight unless fitted with an auxiliary metal shield completely protecting the plastic enclosure from UV exposure.
2. This enclosure is only suitable for use with dusts with a minimum ignition energy greater than 3mJ.

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	Issue	Date	Description
*WE2004792-2	0	20/08/04	Hotbox enclosure detail
WE2004797-4	0	02/08/04	Circuit diagram (11.5 Watts Max)
*WE2004797-1	1	09/09/04	Label

* These drawings are common to and held on Baseefa04ATEX0132X