



## EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS02ATEX2105X**

Equipment or Protective System: **TYPE BGE BREAK GLASS UNIT**

Manufacturer: **MEDC LTD**

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

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

The Electrical Equipment Certification Service, notified body number 600 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 N°

**01(C)1067 dated 8 May 2002**

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

**EN 50014: 1997 + Amds 1 & 2    EN 50018: 2000    EN 50019: 2000    EN 50028: 1987**  
**EN 50281-1-1: 1999**

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

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.

This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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

**Ex II 2 GD    T135°C EEx emd IIC    T4 (-20°C T<sub>amb</sub> +50°C)**  
**or    T85°C EEx ed IIC    T6 (-20°C T<sub>amb</sub> +50°C)**

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

File No: **EECS 0676/01/417**

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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**I M CLEARE**  
**DIRECTOR**  
**16 May 2002**



**Schedule**

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**EC-TYPE EXAMINATION CERTIFICATE N° BAS02ATEX2105X**

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**Description of Equipment or Protective System**

The Type BGE Break Glass Unit is used as the fixed stations in an alarm system.

The unit comprises a two part enclosure manufactured from a glass reinforced polyester dough moulding compound.

The base shell of the unit contains a rail mounted terminal strip and optionally, an encapsulated housing equipped with resistors or a zener diode.

The top shell has an external recess housing a glass panel which is smashed during alarm activation to release an actuator which in turn operates one or two microswitches. Optionally, a light emitting diode housing may be fitted into the wall of the top moulding under the glass panel and is used to indicate alarm activation.

Interconnections between the electrical components in each part of the enclosure shell are made by means of a flying wiring loom. Adverse mechanical loading of the wiring loom is prevented by means of a restraint loop comprising an insulated stainless steel cable, the ends of which are anchored respectively in each part of the enclosure housing.

The equipment provides ingress protection levels of IP66 and IP67 and internal and external earthing facilities are provided.

**ELECTRICAL SUPPLY RATINGS**

- i) For versions which are equipped with up to two microswitches only - the maximum values for each switch fitted are as specified in Table 1;

**TABLE 1**

<b>Voltage (d.c.)</b>	<b>Resistive Load (Amps)</b>	<b>Inductive Load (Amps)</b>
30	5	3
50	1	1
75	0.75	0.75
125	0.5	0.03
250	0.25	0.03
<b>Voltage (a.c.)</b>	<b>Resistive Load (Amps)</b>	<b>Inductive Load (Amps)</b>
125	5	5
250	5	5



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**EC-TYPE EXAMINATION CERTIFICATE N° BAS02ATEX2105X**

- ii) For versions which are equipped with the encapsulated housing - the maximum system values are 24V and 0.05A or 6V and 0.2A independent of the number of units connected in the system. The alternative resistor values and electrical ratings are given in Table 2 below:-

**TABLE 2**

	<b>R1 min.</b>	<b>R2 min.</b>	<b>MAX VOLTAGE</b>	<b>MAX CURRENT</b>
<b>A</b>	100R	250R	24V	0.05A
<b>B</b>	250R	47R	6V	0.2A

**ASSOCIATED CERTIFIED ELECTRICAL COMPONENTS**

The following certified Components may be incorporated into the equipment:-

**TABLE 3**

<b>Certificate No</b>	<b>Description</b>	<b>Manufacturer / Type Designation</b>
BAS01ATEX2358U	Micro Switch	SAIA-Burgess Type E1V3CS/XXXX
BAS01ATEX2378U	Terminal	Weidmuller Type AKZ 4
BAS01ATEX2378U	Terminal	Weidmuller Type AKZ 2.5

**VARIATION 0.1**

To permit the use of a Type BK6 Terminal Strip manufactured by Weidmuller and certified under BASEEFA EC-Type Examination Certificate No BAS98ATEX3084U.

To permit the use of an alternative red pigmented dough moulding compound for the enclosure.

In this form the equipment is identified as a **Type BG2E Break Glass Unit**.

**VARIATION 0.2**

To permit an alternative top enclosure shell which incorporates a revised actuator. To permit revised location of electrical components to obviate the need for an intershell flying wiring loom.

In this variation a single unit comprises a two part enclosure manufactured from a glass reinforced polyester dough moulding compound. The base shell of the enclosure contains all of the electrical components relevant to this apparatus comprising; a rail mounted terminal strip and optionally, an encapsulated housing equipped with resistors or a zener diode.

The top shell has an external projection which houses a mechanically protected spring loaded press button. This is held open by a spring loaded detent when it is in the non activated state. During alarm activation the button is forced along its housing and, by means of a spring loaded intermediate actuator, operates either one or two integral microswitches.

Optionally, a light guide may be fitted into the face wall of the top moulding. This is used, in conjunction with a light emitting diode housing fitted into the base shell, to indicate alarm activation.



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Interconnections between the electrical components in the base shell of the enclosure are made by means of an integral wiring loom.

The enclosure may be supplied as the black pigmented moulding without additional surface treatment or may be supplied coated externally with a pigmented epoxy paint system.

This variation of the apparatus is called a **Type PBE Press Button Unit**.

**ELECTRICAL SUPPLY RATINGS**

- i) For versions which are equipped with up to two microswitches only - the maximum values for each switch fitted are as specified in Table 1.
- ii) For versions which are equipped with the encapsulated housing - the maximum system values are 24V and 0.05A or 6V and 0.2A independent of the number of units connected in the system. The alternative resistor values and electrical ratings are given in Table 2.

**ASSOCIATED CERTIFIED ELECTRICAL COMPONENTS**

For certified Components which may be incorporated into the equipment see Table 3 above.

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01(C)1067

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**Special Conditions For Safe Use**

- 1) The units must be incorporated in systems which limit the electrical supply ratings to the values above.
- 2) The wiring loom between the fixed and detachable enclosure shells must be located, during assembly, such that the conductors and the restraint loop are not trapped in the sealing face between the shells.

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**Essential Health and Safety Requirements**

Essential Health & Safety Requirements not covered by Standards listed at (9) - None.

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**DRAWINGS**

Number	Sheet	Issue	Date	Description
280-656	1	A	11.02.02	General Arrangement-Type BGE
280-656	2	A	11.02.02	General Arrangement-Type BGE
280-659	-	A	11.02.02	Certification Label - Type BGE
280-665	-	A	27.02.02	Wiring Details



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**EC-TYPE EXAMINATION CERTIFICATE N° BAS02ATEX2105X**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
380-447	-	A	26.02.02	General Arrangement-Type PBE
380-449	-	A	26.02.02	Certification Label - Type PBE

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BASEEFA List Keywords  
2MISCELL



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 : **BAS02ATEX2105X/1**

4 Equipment or protective system: **TYPE BGE BREAK GLASS UNIT**

5 Manufacturer : **MEDC Ltd**

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

7 This supplementary certificate, issued by Baseefa (2001) Ltd., Notified Body Number 1180, extends EC - Type Examination Certificate No. **BAS02ATEX2105X** 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

The Electrical Equipment Certification Service, Notified Body Number 0600, retains responsibility for its original documentation. Baseefa (2001) Ltd. is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate that it has issued.

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

Baseefa (2001) Ltd. Customer Reference No. **0676**

Project File No. **02/0176**

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.

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

**R S SINCLAIR**  
DIRECTOR  
On behalf of  
Baseefa (2001) Ltd.

**Baseefa (2001) Ltd.**  
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Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,  
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## Schedule

### Description of the variation to the Equipment or Protective System

#### Variation 1.1

To permit terminals with part numbers 03-7112-0006 or 069716 to be covered by Certificate SIRA02ATEX3001U as an alternative to BAS01ATEX2378U.

#### Report No.

None

#### Special Conditions for Safe Use

See original Certificate

#### Essential Health and Safety Requirements

See original Certificate

#### Drawings and Documents

Number	Issue	Date	Description
280-656 Sheets 1 & 2	B	20/08/02	General Arrangement – Type BGE
380-447	B	20/08/02	General Arrangement – Type PBE



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: **BAS02ATEX2105X/2**
- 4 Equipment or Protective System: **TYPE BGE BREAK GLASS UNIT**
- 5 Manufacturer: **MEDC Limited**
- 6 Address: **Pinxton Nottingham, NG16 6JF**

7 This supplementary certificate extends EC – Type Examination Certificate No. BAS02ATEX2105X 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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

Baseefa (2001) Ltd. Customer Reference No. 0676

Project File No. 03/0140

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R S SINCLAIR  
DIRECTOR  
On behalf of  
Baseefa (2001) Ltd.



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## Schedule

### 13 Description of the variation to the Equipment or Protective System

#### Variation 2.1

Alternative certification option for the Type BK6 Terminals. The terminals may now be to either EC Type Examination Certificate No. Sira 01ATEX3247U, coded  $\text{Ex}$  II 2GD EEx e II, or BAS98ATEX3084U as originally specified.

### 14 Report Number

None

### 15 Special Conditions for Safe Use

None additional to those listed previously

### 16 Essential Health and Safety Requirements

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

### 17 Drawings and Documents

Number	Issue	Date	Description
280-656 Sheets 1 & 2	C	05/02/03	General Arrangement – Type BGE



**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: BAS02ATEX2105X/3**

**4 Equipment or Protective System: TYPE BGE BREAK GLASS UNIT**

**5 Manufacturer: MEDC Limited**

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

**7 This supplementary certificate extends EC – Type Examination Certificate No. BAS02ATEX2105X 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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Baseefa (2001) Ltd. Customer Reference No. 0676

Project File No. 03/0735

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.



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## Schedule

### 13 Description of the variation to the Equipment or Protective System

#### Variation 3.1

Alternative electrical ratings for units incorporating the encapsulated housings (suffix 'R') as follows :-

Maximum Voltage	Maximum Current
6V*	0.2A*
24V*	0.05A*
48V	0.025A
60V	0.02A
80V	0.015A

\* Previously listed voltage/current combinations

### 14 Report Number

None

### 15 Special Conditions for Safe Use

None additional to those listed previously

### 16 Essential Health and Safety Requirements

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

### 17 Drawings and Documents

Number	Issue	Date	Description
280-659	B	02/10/03	Certification Label – Type BGEBGE2 Break Glass Units
380-449	B	02/10/03	Certification Label – Type PBE Push Button Units



- 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      **See Schedule**  
Number:
- 4 Equipment or protective system:                              **See Schedule**
- 5 Manufacturer:    **MEDC**
- 6 Address:    **Colliery Road, Pinxton, Nottingham, NG16 6JF**
- 7 This supplementary certificate extends the EC - Type Examination Certificates listed in the Schedule to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedules of the said Certificates but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

A copy of this Supplementary Certificate shall be attached to each of the original Certificates.

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

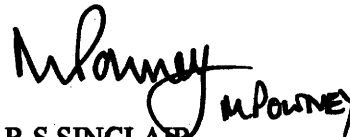
Baseefa Customer Reference No. 0676

Project File No. 07/0181

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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Baseefa is a trading name of Baseefa (2001) Ltd  
Registered in England No. 4305578 at the above address

  
R S SINCLAIR  
DIRECTOR  
On behalf of  
Baseefa (2001) Ltd.



### Schedule

#### Description of the variation to the Equipment or Protective System

To permit the use of epoxy or acrylic paint processes on the products detailed below.

Certificate No.	Supplement No.	Equipment Type
BAS99ATEX2195X	5	XBII
BAS99ATEX2196	5	XB12,FB12,TH12,FL12,
BAS00ATEX2031	2	XB9
BAS00ATEX2097X	9	DB3, DB3L, DB4, DB4L
BAS00ATEX2098X	9	DB3E, DB3E, DB4, DB4E
BAS00ATEX2204X	1	XB10
BAS00ATEX2226X	1	XB10E
BAS02ATEX2086X	5	DB10
BAS02ATEX2105X	4	BGE, PBE
Baseefa03ATEX0084X	2	BG1, PB1
Baseefa04ATEX0009X	3	XB15, FB15, FL15, LD15, TH15
Baseefa04ATEX0166X	2	DB16 IIB
Baseefa04ATEX0167X	2	DB16 IIC
Baseefa05ATEX0198X	1	DB20 IIB
Baseefa05ATEX0199X	1	DB20 IIC

#### Report No.

None

#### Special Conditions for Safe Use

None additional to those listed previously

#### Essential Health and Safety Requirements

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

#### Drawings and Documents

Number	Issue	Date	Description
122-808	1	05/03/07	Addition of Optional Acrylic Paint to Products Listed.



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 **BAS02ATEX2105X/5**  
Examination Certificate Number:

4 Equipment or Protective System: **Type BGE Break Glass Unit**

5 Manufacturer: **MEDC Limited**

6 Address: **Colliery Road, Pinxton, Nottingham, NG16 6JF.**

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa04ATEX2105X 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.

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Baseefa Customer Reference No. 0676

Project File No. 07/0656

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.



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**Certificate Number BAS02ATEX2105X/5**

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

**Variation 4.1**

To permit the manufacturer of BGE or BGE2 Break Glass units in either Beetle DMC G8B L5700 or DMC G7B.

16 **Report Number**

None

17 **Special Conditions for Safe Use**

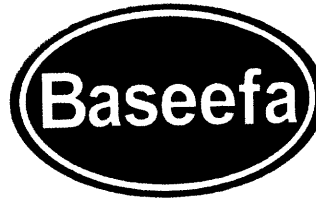
None additional to those listed previously

18 **Essential Health and Safety Requirements**

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

19 **Drawings and Documents**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
280-656	1 to 2	D	09/08/07	ATEX Certification GA BGE/BGE2 Break Glass



**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: BAS02ATEX2105X/6**

**4 Equipment or Protective System: Type BGE Break Glass Unit**

**5 Manufacturer: Cooper MEDC Limited**

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

**7 This supplementary certificate extends EC – Type Examination Certificate No. BAS02ATEX2105X/6 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.

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 supplementary certificate and any other supplementary certificate it has issued.

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

Baseefa Customer Reference No. 0676

Project File No. 10/0394

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**DIRECTOR**  
On behalf of  
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### Schedule

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Certificate Number BAS02ATEX2105X/6

15 Description of the variation to the Equipment or Protective System

#### Variation 6.1

To allow the rating of the resistor R2 to be reduced to 180 ohm in the BGE units fitted with series and EOL resistors.

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	Sheet	Issue	Date	Description
280 - 665	1 of 1	B	06/05/10	Certification Wiring Diagrams BGE/BG2E



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: **BAS02ATEX2105X/7**

4 Equipment or Protective System: **Type BGE Break Glass Unit**

5 Manufacturer: **Cooper MEDC Limited**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. BAS02ATEX2105X 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 Item 9 of the original Certificate is replaced by "Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN60079-0: 2009 EN60079-1: 2007 EN60079-7: 2007 EN60079-31: 2009**

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

9 The marking of the equipment has changed from the original Certificate and shall include the following:

**⊕ II GD Ex de IIC T6 T<sub>amb</sub> - 40°C to + 70°C Gb Ex tb IIIC T85°C T<sub>amb</sub> -40°C to + 70°C Db IP66**

This certificate shall be held with the original certificate and may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. 0676

Project File No. 10/0640

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.

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Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

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

R S SINCLAIR

DIRECTOR  
On behalf of  
Baseefa

Re-issued 17<sup>th</sup> June 2013 to replace original



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## Schedule

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Certificate Number BAS02ATEX2105X/7

15 Description of the variation to the Equipment or Protective System

### Variation 8.1

To delete the options of the LED, the encapsulated resistor and the encapsulated earth stud.

### Variation 8.2

To permit a modified lift flap and plunger sealing arrangement on the Type PBE Press Button Unit

### Variation 8.3

The Type BGE Break Glass Unit is considered to comply EN60079-0: 2009, EN60079-1: 2007, EN60079-7: 2007, and is marked:-

⊕ II 2 G  
Ex de IIC T6 T<sub>amb</sub> - 40°C to + 70°C Gb

The Type PBE Press Button Unit is considered to comply with EN60079-0: 2009, EN60079-1: 2007, EN60079-7: 2007, and EN60079-31: 2009 and is marked:-

⊕ II 2 G D  
Ex de IIC T6 T<sub>amb</sub> - 40°C to + 70°C Gb  
Ex tb IIIC T85°C T<sub>amb</sub> -40°C to + 70°C Db IP66

16 Report Number

Baseefa certification report 10(C)0640.

17 Specific Conditions of Use

1 The cable glands of the Type PBE Press Button Unit are to be provided with sealing washers to maintain the IP66 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

Number	Sheet	Issue	Date	Description
280-656	1	E	12.07.12	General Assembly BGE/BG2E Unit
280-656	2	E	12.07.12	General Assembly BGE/BG2E Unit
280-665	1	C	03.07.12	Wiring Diagram BGE/BG2E Unit
280-659	-	C	12.07.12	ATEX Certification Label BGE/BG2E Unit
380-447	1	D	12.07.12	General Assembly PBE Unit
380-449	-	C	10.07.12	ATEX Certification Label PBE Unit

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: **BAS02ATEX2105X/8**
- 4 Equipment or Protective System: **Type BGE Break Glass Unit**
- 5 Manufacturer: **Cooper MEDC Limited**
- 6 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. **BAS02ATEX2105X** 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.

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 supplementary certificate and any other supplementary certificate it has issued.

Baseefa Customer Reference No. **0676**

Project File No. **12/1004**

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Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

Re-issued 1<sup>st</sup> November 2013 to replace original

R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number BAS02ATEX2105X/8**

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

**Variation 8.1**

To permit the use of an encapsulated LED and an encapsulated resistor / diode to Baseefa13ATEX0067U.

When provided with the encapsulated LED unit, or an encapsulated LED unit and a resistor/diode unit the BGE and PBE units are marked:-

BGE Units

⊕ II 2 G Ex d e mb IIC T4 Gb ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

PBE Units

⊕ II 2 GD Ex d e mb IIC T4 Gb ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )  
Ex tb IIIC T120°C Db IP66 ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

When provided with the encapsulated resistor/diode unit, the BGE and PBE units are marked:-

BGE Units

⊕ II 2 G Ex d e mb IIC T4 Gb ( $T_{amb} - 40^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

PBE Units

⊕ II 2 GD Ex d e mb IIC T4 Gb ( $T_{amb} - 40^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )  
Ex tb IIIC T120°C Db IP66 ( $T_{amb} - 40^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

When provided with the encapsulated LED, the BGE and PBE units are marked:-

BGE Units

⊕ II 2 G Ex d e mb IIC T6 Gb ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

PBE Units

⊕ II 2 GD Ex d e mb IIC T6 Gb ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )  
Ex tb IIIC T85°C Db IP66 ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

**Variation 8.2**

To permit an alternative method of providing an optional internal and external earth assembly.

**Variation 8.3**

To note a change of company address.

16 **Report Number**

SGS Baseefa certification report 12(C)1004.

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**17 Specific Conditions of Use**

The encapsulated LED and an encapsulated resistor / diode units shall be protected by a fuse rated for a prospective short circuit current of at least 1500A.

**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	Sheet	Issue	Date	Description
280-656	1&2	F	15.08.13	General Assembly – BGE Unit
280-659	1	D	13.08.13	Certification Label – BGE Unit
380-447	1	E	15.08.13	General Assembly – PBE Unit
380-449	1	D	13.08.13	Certification Label – PBE Unit

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: **BAS02ATEX2105X/9**
- 4 Equipment or Protective System: **Type BGE Break Glass Unit**
- 5 Manufacturer: **Cooper MEDC Limited**
- 6 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. **BAS02ATEX2105X** 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.

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 supplementary certificate and any other supplementary certificate it has issued.

Baseefa Customer Reference No. **0676**

Project File No. **16/0089**

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

R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

## Schedule

14

Certificate Number BAS02ATEX2105X/9

15

### Description of the variation to the Equipment or Protective System

#### Variation 9.1

To permit an alternative actuator assembly on the break glass unit only, and clarification of labelling.

The full lists of codes are listed below.

#### BGE Units Switches only

⊕ II 2 GD Ex d e IIC T6 Gb ( $T_{amb} - 40^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )  
Ex tb IIIC T85 $^{\circ}\text{C}$  Db IP66/IP67 ( $T_{amb} - 40^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

#### BGE Units with LEDs

⊕ II 2 GD Ex d e mb IIC T6 Gb ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )  
Ex tb IIIC T85 $^{\circ}\text{C}$  Db IP66/IP67 ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

#### BGE Units with resistors

⊕ II 2 GD Ex d e mb IIC T4 Gb ( $T_{amb} - 40^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )  
Ex tb IIIC T135 $^{\circ}\text{C}$  Db IP66/IP67 ( $T_{amb} - 40^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

#### BGE Units with LEDs and resistors

⊕ II 2 GD Ex d e mb IIC T4 Gb ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )  
Ex tb IIIC T135 $^{\circ}\text{C}$  Db IP66/IP67 ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

#### PBE Units Switches only

⊕ II 2 GD Ex d e IIC T6 Gb ( $T_{amb} - 40^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )  
Ex tb IIIC T85 $^{\circ}\text{C}$  Db IP66/IP67 ( $T_{amb} - 40^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

#### PBE Units with LEDs

⊕ II 2 GD Ex d e mb IIC T6 Gb ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )  
Ex tb IIIC T85 $^{\circ}\text{C}$  Db IP66/IP67 ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

#### PBE Units with resistors

⊕ II 2 GD Ex d e mb IIC T4 Gb ( $T_{amb} - 40^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )  
Ex tb IIIC T135 $^{\circ}\text{C}$  Db IP66/IP67 ( $T_{amb} - 40^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

#### PBE Units with LEDs and resistors

⊕ II 2 GD Ex d e mb IIC T4 Gb ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )  
Ex tb IIIC T135 $^{\circ}\text{C}$  Db IP66/IP67 ( $T_{amb} - 35^{\circ}\text{C}$  to  $+ 70^{\circ}\text{C}$ )

16

### Report Number

SGS Baseefa certification report 16(C)0089.

17

### Specific Conditions of Use

None additional to previous.

18

### Essential Health and Safety Requirements

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

**19 Drawings and Documents**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
280-656	1&2	G	18.02.16	General Assembly – BGE Unit
380-449	1	E	10.03.16	Certification Label – PBE Unit
280-659	1	E	10.03.16	Certification Label – BGE Unit

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 2014/34/EU**

3 Supplementary EU - Type Examination Certificate Number: **BAS02ATEX2105X/10**

4 Product: **Break Glass Unit - BGE, BG2E & PBE**

5 Manufacturer: **Eaton MEDC Limited**

6 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB**

7 This supplementary certificate extends EU – Type Examination Certificate No. Baseefa02ATEX2105X to apply to products 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 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, 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 Annex II to the Directive.

9 Item 9 of the original Certificate is replaced by “Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015 EN 60079-18:2015 EN 60079-31:2014**

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

12 The marking of the equipment has changed from the original Certificate and shall include the following:

**Models: BGE, BG2E, PBE**

**LEDs**

**⊕ II 2 GD**

**Ex db eb mb IIC T6 Gb**

**Ex tb IIIC T85°C Db IP66**

**(T<sub>amb</sub> = -35°C to +70°C)**

**Resistors**

**⊕ II 2 GD**

**Ex db eb mb IIC T4 Gb**

**Ex tb IIIC T135°C Db IP66**

**(T<sub>amb</sub> = -40°C to +70°C)**

**LEDs & Resistors**

**⊕ II 2 GD**

**Ex db eb mb IIC T4 Gb**

**Ex tb IIIC T135°C Db IP66**

**(T<sub>amb</sub> = -35°C to +70°C)**

**Switches only**

**⊕ II 2 GD**

**Ex db eb IIC T6 Gb**

**Ex tb IIIC T85°C Db IP66**

**(T<sub>amb</sub> = -40°C to +70°C)**

SGS Baseefa Customer Reference No. **0676**

Project File No. **18/0419**

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**R S SINCLAIR**  
**TECHNICAL MANAGER**

On behalf of SGS Baseefa Limited

D BREARLEY  
Certification  
Manager

13

## Schedule

14

Certificate Number BAS02ATEX2105X/10

### 15 Description of the variation to the Product

#### Variation 10.1

All models are permitted to be fitted with type BK6 terminal strip as detailed in the table below together with the separately certified devices listed.

ASSOCIATED CERTIFIED ELECTRICAL COMPONENTS			
The following certified components may be incorporated into the equipment:			
Certificate No. IECEx/ATEX	Description	Manufacturer	Type Designation
BAS01ATEX2358U	Micro Switch	SAIA-Burgess	E1V3CS/XXXX
Baseefa13ATEX0067U	Encapsulated LED and Resistor Units	Eaton MEDC	Encapsulated Resistor/Diode assembly
SIRA02ATEX3001U	Terminal	Weidmuller	AKZ 4EX AKZ 2.5
SIRA 01 ATEX 3247U	Terminal	Weidmuller	BK 6
KEMA03ATEX2380U	Terminal	Phoenix	MBK2.5/E

### 16 Report Number

SGS Report Number GB/BAS/ExTR18.0326/00

### 17 Specific Conditions of Use

The Specific Conditions of Use have been amended and include the following.

- Cable glands installed on the BGE, BG2E and PBE models are to be provided with sealing washers to maintain the IP66 rating of the enclosure.

### 18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is affected as follows.

Clause	Subject	Compliance
1.2.7	LVD type requirements.	Standards require manufacturer's declaration to be supplied.
1.2.8	Overloading of equipment (protection relays, etc.)	Cover by installation rules and manufacturer's instructions.
1.4.1	External effects	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions
1.4.2	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions

**19 Drawings and Documents**

Number	Sheet	Issue	Date	Description
**280-659	1 of 1	F	25/2/19	BGE/BG2E Break Glass ATEX Cert Label
**380-449	1 of 1	F	25/2/19	PBE Push Button ATEX Cert Label
*280-665	1 of 1	D	10/08/2018	Certification Wiring Diagrams BGE/BG2E/PBE
*280-656	1 of 2	H	10/08/2018	ATEX/IECEX Certification GA BGE/BG2E Break Glass
*380-447	1 of 1	G	10/08/2018	ATEX/IECEX Certification GA PBE Push Button

\*These drawings are common to BAS02ATEX2105X and IECEX BAS 18.0100X and are held with the latter.

\*\*These drawings only pertain to BAS02ATEX2105X