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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 : **BAS02ATEX2105X**

4

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

5

Manufacturer: **MEDC LTD**

6

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

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

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

9

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.

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. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

12

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

**⊕ II 2 GD T135°C EEx emd IIC T4 (-20°C T_{amb} +50°C)
or T85°C EEx ed IIC T6 (-20°C T_{amb} +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**



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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

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



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- 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

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

ASSOCIATED CERTIFIED ELECTRICAL COMPONENTS

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

TABLE 3

Certificate No	Description	Manufacturer / Type Designation
BAS01ATEX2358U	Micro Switch	SAIA-BurgessType 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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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.

18

Essential Health and Safety Requirements

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

19

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

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

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

BASEEFA List Keywords
2MISCELL



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate **BAS02ATEX2105X/1**
Number :

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.

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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.

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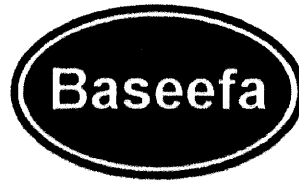
Project File No. 03/0140

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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 $\text{\textcircled{E}}$ 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

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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

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DIRECTOR
On behalf of
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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 Examination Certificate Number: **BAS02ATEX2105X/5**

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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DIRECTOR
On behalf of
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13

Schedule

14

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**

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