



EC - TYPE EXAMINATION CERTIFICATE

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

EC - Type Examination Certificate Number: **Baseefa03ATEX0075**

Equipment or Protective System: **SM87 ALARM STATIONS**

Manufacturer: **MEDC LIMITED**

Address: **Colliery Road, 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.

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. 02(C)0226

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

EN 50014: 1997 + Amendments 1 & 2 EN 50018: 2000 + Amendment 1 EN 50281-1-1: 1998

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. 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.

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

Ex II 2 GD EEx d IIC T85°C (T_{amb} = -55°C to +55°C) or T100°C (T_{amb} = -55°C to +70°C)

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Baseefa (2001) Ltd. Customer Reference No. 0676

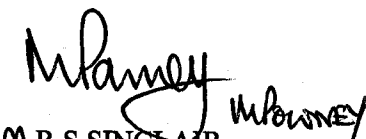
Project File No. 02/0226

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.

Baseefa (2001) Ltd.

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

Re-issued 11th September 2009 to replace original



13

Schedule

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Certificate Number Baseefa03ATEX0075

15 Description of Equipment or Protective System

The Type SM87 Alarm Stations may be rated up to 24V, 2A and each comprises a cylindrical enclosure on a square base with an irregular shaped cover secured by 4 off M6 x 12mm long socket head cap screws of grade A4-70 or A4-80 stainless steel. The base and cover may be manufactured from either aluminium or stainless steel.

The cover of the units are fitted with an actuator mechanism which may be operated with either a push button or break glass function, dependant on the external actuator assembly as follows :-

- a. Type BGLD - Break glass with latching mechanism
- b. Type LBGLD - Break glass with protective lift flap and latching mechanism
- c. Type PBLD - Push button with latching mechanism
- d. Type PBMD - Push button with momentary mechanism

In addition the cover of the break glass units may also be fitted with an integral hammer assembly.

The interior of the enclosure comprises up to two micro-switches, mounted on the inside of the cover, and up to twelve rail mounted terminals fitted to the enclosure base.

The enclosure is provided with internal and external earth connection facilities.

Up to 4 cable entry holes threaded M16 to M25 (or NPT & Pg equivalents) may be provided in the enclosure side walls to accommodate suitable BASEEFA certified flameproof cable entry devices, with or without the interposition of a suitable BASEEFA certified flameproof thread adapter. Unused entries are to be fitted with suitable BASEEFA certified flameproof stopping plugs. If the unit is intended for use in a dust atmosphere these devices must be sealed in accordance with the relevant codes of practice to ensure a dust tight seal.

Suitable flameproof cable entry devices, thread adapters and stopping plugs certified as Equipment (not a Component) under an EC Type Examination Certificate to Directive 94/9/EC may also be used in the manner specified above.

In addition, these units may be supplied by the manufacturer in an assembly of up to five interconnected enclosures.

16 Report Number

Baseefa Certification Report 02(C)0226

17 Special Conditions for Safe Use

None

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
462-947 Sheets 1 & 2	A	28-01-03	General Arrangement, SM87 Alarm Stations
462-955	A	28-01-03	Enclosure Detail, Aluminium
462-980	A	13-02-03	Enclosure Detail, Stainless Steel
462-983	A	06-03-03	Cover, Break Glass
462-985	A	06-03-03	Cover, Push Button
462-986	A	28-02-03	Enclosure, Earth & Seal Detail
462-987	A	03-03-03	Sealing Arrangement, Break Glass & Push Button

Certificate Number
Baseefa03ATEX0075/1



Issued 27 January 2004
Page 1 of 2

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: Baseefa03ATEX0075/1

4 Equipment or Protective System: SM87 ALARM STATIONS

5 Manufacturer: MEDC Limited

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0075 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 (2001) Ltd. Customer Reference No. 0676

Project File No. 03/0777

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Certificate Number
Baseefa03ATEX0075/1



Issued 27 January 2004
Page 2 of 2

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Certificate Number Baseefa03ATEX0075/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

Alternative arrangement comprising an SM87 Alarm Station with switches mounted on the underside of the cover and an addressable printed circuit board (PCB) mounted in the base.

In this form the unit is designated a **SM87 ADDRESSABLE UNIT B** and is rated up to 24V, 0.5A with a revised Temperature Classification of T85°C ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) or T100°C ($T_{amb} = -55^{\circ}\text{C}$ to $+70^{\circ}\text{C}$).

16 Report Number

None

17 Special Conditions for Safe Use

None

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
562-291	A	02-09-03	General Arrangement - SM87 Addressable Unit B

Certificate Number
Baseefa03ATEX0075/2



Issued 27 January 2004
Page 1 of 2

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: Baseefa03ATEX0075/2

4 Equipment or Protective System: SM87 ALARM STATIONS

5 Manufacturer: MEDC Limited

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0075 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 (2001) Ltd. Customer Reference No. 0676

Project File No. 03/0954

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Certificate Number
Baseefa03ATEX0075/2



Issued 27 January 2004
Page 2 of 2

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Certificate Number Baseefa03ATEX0075/2

15 Description of the variation to the Equipment or Protective System

Variation 2.1

Alternative arrangement comprising an SM87 Alarm Station with switches mounted on the underside of the cover and an alternative addressable printed circuit board (PCB) mounted in the base.

In this form the unit is designated a SM87 ADDRESSABLE UNIT F and is rated up to 24V, 0.5A with a revised Temperature Classification of T85°C ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) or T100°C ($T_{amb} = -55^{\circ}\text{C}$ to $+70^{\circ}\text{C}$).

16 Report Number

None

17 Special Conditions for Safe Use

None

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
562-333	A	05-11-03	General Arrangement - SM87 Addressable Unit F

Certificate Number
Baseefa03ATEX0075/3



Issued 29 January 2004
Page 1 of 2

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: **Baseefa03ATEX0075/3**

4 Equipment or Protective System: **SM87 ALARM STATIONS**

5 Manufacturer: **MEDC Limited**

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0075 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 (2001) Ltd. Customer Reference No. 0676

Project File No. 04/0062

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On behalf of
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Certificate Number
Baseefa03ATEX0075/3



Issued 29 January 2004
Page 2 of 2

Schedule

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Certificate Number Baseefa03ATEX0075/3

15 Description of the variation to the Equipment or Protective System

Variation 3.1

Alternative arrangement comprising an SM87 Alarm Station with switches mounted on the underside of the cover and an alternative addressable printed circuit board (PCB) mounted in the base.

In this form the unit is designated a SM87 ADDRESSABLE UNIT G and is rated up to 24V, 0.5A with a revised Temperature Classification of T85°C ($T_{mb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) or T100°C ($T_{mb} = -55^{\circ}\text{C}$ to $+70^{\circ}\text{C}$).

16 Report Number

None

17 Special Conditions for Safe Use

None

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
562-348	A	12-01-04	General Arrangement - SM87 Addressable Unit G

Certificate Number
Baseefa03ATEX0075/4



Issued 25 August 2005
Page 1 of 2

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: Baseefa03ATEX0075/4

4 Equipment or Protective System: SM87 ALARM STATIONS

5 Manufacturer: MEDC Limited

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0075 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. 0676

Project File No. 05/0586

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Certificate Number Baseefa03ATEX0075/4

15 Description of the variation to the Equipment or Protective System

Variation 4.1

To note change in type reference of the addressable callpoint.

16 Report Number

None

17 Special Conditions for Safe Use

None

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
562-333	B	19.08.05	General Arrangement - SM87 Addressable Unit F

Certificate Number
Baseefa03ATEX0075/5



Issued 14th October 2005
Page 1 of 2

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: Baseefa03ATEX0075/5

4 Equipment or Protective System: SM87 ALARM STATIONS

5 Manufacturer: MEDC Limited

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0075 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. 0676

Project File No. 05/0675

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Certificate Number Baseefa03ATEX0075/5

15

Description of the variation to the Equipment or Protective System

Variation 5.1

Alternative arrangement comprising an SM87 Alarm Station with switches mounted on the underside of the cover and an alternative printed circuit board mounted in the base.

In this form the unit is designated a SM87 XP950 MODULE UNIT and is rated up to 24V, 1A with a revised Temperature Classification of T85°C ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$).

16

Report Number

None

17

Special Conditions for Safe Use

None

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
562-498	A	05-10-05	General Arrangement, SM87 XP950 Module Unit

Certificate Number
Baseefa03ATEX0075/6



Issued 5 December 2005
Page 1 of 2

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: Baseefa03ATEX0075/6

4 Equipment or Protective System: SM87 ALARM STATIONS

5 Manufacturer: MEDC Limited

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0075 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. 0676

Project File No. 05/0831

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Certificate Number
Baseefa03ATEX0075/6



Issued 5 December 2005
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Certificate Number Baseefa03ATEX0075/6

15

Description of the variation to the Equipment or Protective System

Variation 6.1

Alternative rating of 48V, 1A for the SM87 Alarm Stations, together with a change to the optional internal resistors.

16

Report Number

None

17

Special Conditions for Safe Use

None

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

462-947 Sheets 1 & 2

B

02-12-05

General Arrangement, SM87 Alarm Stations

Certificate Number
Baseefa03ATEX0075/7



Issued 14 September 2006
Page 1 of 2

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: Baseefa03ATEX0075/7

4 Equipment or Protective System: SM87 ALARM STATIONS

5 Manufacturer: MEDC Limited

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0075 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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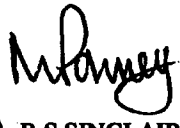
Baseefa Customer Reference No. 0676

Project File No. 06/0716

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Certificate Number
Baseefa03ATEX0075/7



Issued 14 September 2006
Page 2 of 2

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Schedule

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Certificate Number Baseefa03ATEX0075/7

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

Variation 7.1

Alternative arrangement comprising an SM87 Alarm Station with switches mounted on the underside of the cover and up to 12 rail mounted terminals and an end of line (EOL) device mounted in the base.

In this form the unit is designated a SM87PBD EOL UNIT A and is rated up to 24V, 0.5A with a Temperature Classification of T85°C ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) or T100°C ($T_{amb} = -55^{\circ}\text{C}$ to $+70^{\circ}\text{C}$).

16 **Report Number**

None

17 **Special Conditions for Safe Use**

None

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
562-561	A	30-08-06	General Arrangement, SM87PBD EOL Unit A

Certificate Number
Baseefa03ATEX0075/8



Issued 10 October 2007
Page 1 of 2

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: Baseefa03ATEX0075/8

4 Equipment or Protective System: SM87 ALARM STATIONS

5 Manufacturer: MEDC Limited

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0075 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. 0676

Project File No. 04/0562

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Certificate Number Baseefa03ATEX0075/8

15 Description of the variation to the Equipment or Protective System

Variation 4.1

Optional addition of an indicator LED and window assembly to the cover of the push-button and break-glass units.

16 Report Number

Baseefa Certification Report No. 04(C)0562

17 Special Conditions for Safe Use

None

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
462-947 Sheets 1 & 2	C	18-09-07	General Arrangement, SM87 Alarm Stations
462-983	B	12-07-04	Cover, Break Glass
462-985	B	09-07-04	Cover, Push Button
562-392	A	14-07-04	Window Detail

Certificate Number
Baseefa03ATEX0075/9



Issued 7 July 2008
Page 1 of 2

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: Baseefa03ATEX0075/9

4 Equipment or Protective System: SM87 ALARM STATIONS

5 Manufacturer: Cooper MEDC Limited

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

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Baseefa Customer Reference No. 0676

Project File No. 08/0476

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Certificate Number Baseefa03ATEX0075/9

15 Description of the variation to the Equipment or Protective System

Variation 9.1

To permit an optional transient voltage suppressor rated up to 5W.

16 Report Number

None.

17 Special Conditions for Safe Use

None.

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
462-947	1& 2	D	23.06.08	General Arrangement, SM87 Alarm Stations

Certificate Number
Baseefa03ATEX0075/10



Issued 7 January 2009
Page 1 of 2

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: Baseefa03ATEX0075/10

4 Equipment or Protective System: SM87 ALARM STATIONS

5 Manufacturer: Cooper MEDC Limited

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Baseefa Customer Reference No. 0676

Project File No. 09/0006

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14

Certificate Number Baseefa03ATEX0075/10

15 Description of the variation to the Equipment or Protective System

Variation 10.1

Alternative arrangement comprising an SM87 Alarm Station with an addressable callpoint mounted on the underside of the cover and an addressable printed circuit board (PCB) module and terminals mounted in the base.

In this form the unit is designated a SM87 ADDRESSABLE UNIT G and is rated up to 24V, 0.02A with a Temperature Classification of T85°C ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) or T100°C ($T_{amb} = -55^{\circ}\text{C}$ to $+70^{\circ}\text{C}$).

16 Report Number

None.

17 Special Conditions for Safe Use

None.

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
562-697	1	A	17.12.08	General Arrangement, SM87BG Addressable Unit H

Certificate Number
Baseefa03ATEX0075/11



Issued 17th April 2009
Page 1 of 2

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: Baseefa03ATEX0075/11

4 Equipment or Protective System: SM87 ALARM STATIONS

5 Manufacturer: Cooper MEDC Limited

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0075 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. 0676

Project File No. 09/0270

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

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa03ATEX0075/11

15 Description of the variation to the Equipment or Protective System

Variation 11.1

Alternative arrangement comprising an SM87 Alarm Station with switches mounted on the underside of the cover and an addressable printed circuit board (PCB) module and terminals mounted in the base.

In this form the unit is designated a **SM87 ADDRESSABLE UNIT J** and is rated up to 24V, 0.1A with a Temperature Classification of T85°C ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) or T100°C ($T_{amb} = -55^{\circ}\text{C}$ to $+70^{\circ}\text{C}$).

16 Report Number

None.

17 Special Conditions for Safe Use

None.

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
562-708	1	A	13.02.09	General Arrangement, SM87BG Addressable Unit J