

1 **EU - TYPE EXAMINATION CERTIFICATE**

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

3 EU - Type Examination Certificate Number: **Baseefa08ATEX0320X – Issue 6**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **Type HD1 Addressable Heat Detector**

5 Manufacturer: **Eaton MEDC Limited**

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

7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa08ATEX0320X** to apply to product 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 Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product 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.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

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

**EN IEC 60079-0: 2018 EN 60079-1: 2014 EN 60079-31: 2014 IEC 60079-33: 2012 Ed. 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 product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

**⊕ II 2 GD Ex db sb IIC T6 Gb (Tamb -20°C to +55°C), Ex tb IIIC T85°C Db IP6X, or  
Ex db sb IIC T4 Gb (Tamb -20°C to +90°C), Ex tb IIIC T135°C Db IP6X**

SGS Fimko Oy Customer Reference No. **0676**

Project File No. **23/0556**

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**SGS Fimko Oy**

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web site [www.sgs.fi](http://www.sgs.fi)

Business ID 0978538-5 Member of the SGS Group (SGA SA)



Mikko Välimäki  
SGS Fimko Oy

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13 **Schedule**

14 **Certificate Number Baseefa08ATEX0320X – Issue 6**

15 **Description of Product**

Type HD1 Addressable Heat Detector comprises an SM87 Component Enclosure, in aluminium, as certificate Baseefa09ATEX0018U and coded Ex db IIC.

The cover is secured by four M6 x 12 mm long stainless-steel socket headed cap screws of grade A4-80.

A central ½” NPT aperture is fitted with a welded and cemented, thermostatic temperature detector assembly. The detector assembly is retained with Loctite 635 or 638.

The interior of the enclosure contains a rail mounted Addressable Interface Module, five Weidmuller Type AKZ 1.5 rail mounted terminals and two resistors. Units incorporating an addressable module, carry the following marking:

**Ex db sb IIC T6 Gb (Tamb -20°C to +55°C), Ex tb IIIC T85°C Db IP6X**

The internal components may optionally include up to 2 diodes, a transient voltage suppressor or a Zener diode rated at 24V maximum, 5W minimum.

The total maximum heat dissipation is 6.62W.

The addressable module with or without the replacement of the other contents may alternatively be replaced by up to six terminals as Weidmuller Type BK6 or RIKO Components Types 2-402-2 or 2-403-3 or 2-424-4.

Internal and external earth terminals are provided.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

When used in dust atmospheres the flameproof cable entries or stopping plugs shall be selected and installed so that the dust tight (IP6X) integrity of the enclosure is maintained.

16 **Report Number**

See Certificate History

17 **Specific Conditions of Use**

1. Cover screws of minimum grade A4-80 stainless steel shall be used.
2. Warning – potential electrostatic charging hazard – See instructions.

18 **Essential Health and Safety Requirements**

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.4.1	External effects
1.4.2	Aggressive substances, etc.

**19 Drawings and Documents**

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
465-158*	1 of 1	G	19/07/24	Certification GA IECEx / ATEX Addressable Heat Detector HD1 IIC Version
465-164**	1 of 1	C	26-06-24	IECEX / ATEX Certification Details Heat Detector

\* The above drawing is common to IECEx SGS 24.0012X and Baseefa08ATEX0320X.

\*\* The above drawing is common to IECEx SGS 24.0013X and Baseefa08ATEX0320X & IECEx SGS 24.0012X and Baseefa08ATEX0320X.

Current drawings which remain unaffected by this issue:

None. The above drawings replace all those previously detailed.

**20 Certificate History**

Certificate No.	Date	Comments
Baseefa08ATEX0320	26 May 2009	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0: 2006, EN 60079-1: 2007, EN 61241-0: 2006 and EN 61241-1: 2004 is documented in Test Report No. 08(C)0718.
Baseefa08ATEX0320/1	3 January 2012	This supplement permits the omission of the addressable module and associated components by alternative terminals. No report, Project number 11/1013.
Baseefa08ATEX0320/2	23 July 2012	This supplement permits the use of an alternative addressable interface having similar dimensions and dissipation. No report, project number 12/0613.
Baseefa08ATEX0320/3	4 January 2013	This supplement permits a change of resistance values and the addition of two diodes and a transient voltage suppressor. No report, project number 12/1074
Baseefa08ATEX0320/4	6 October 2014	This supplement permits an alternative variant with a temperature class of T4 with an increased maximum ambient temperature of 90°C. The associated assessment is documented in Test Report 14(C)0505, Project number 14/0505.
Baseefa08ATEX0320/5	9 July 2015	This supplement permits the inclusion of an optional Zener Diode, rated 24V maximum and 5W maximum. No report, project number 15/0461,
Baseefa0ATEX0320X Issue 6	24 September 2024	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN IEC 60079-0: 2018, EN 60079-1: 2014, EN 60079-31: 2014 and IEC 60079-33: 2012 Ed. 1 including the revision of the equipment marking in accordance with these standards. The associated assessment is documented in Test Report GB/BAS/ExTR24.0036/00, project number 23/0556.
For drawings applicable to each issue, see original of that issue.		

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: **Baseefa08ATEX0320/5**
- 4 Equipment or Protective System: **Type HD1 Addressable Heat Detector**
- 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. Baseefa08ATEX0320 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.

Baseefa Customer Reference No. **0676**

Project File No. **15/0461**

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

  
R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

## Schedule

14

Certificate Number Baseefa08ATEX0320/5

15 Description of the variation to the Equipment or Protective System

### Variation 5.1

To include the addition of an optional Zener Diode, rated at 24 Volts maximum and 5 Watts minimum.

16 Report Number

None.

17 Specific Conditions of 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
465-158	1 of 1	F	10/06/15	Certification GA Addressable Heat Detector HD1 IIC Version

**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: Baseefa08ATEX0320/4**

**4 Equipment or Protective System: Type HD1 Addressable Heat Detector**

**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. Baseefa08ATEX0320 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.

Baseefa Customer Reference No. 0676

Project File No. 14/0505

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**SGS Baseefa Limited**

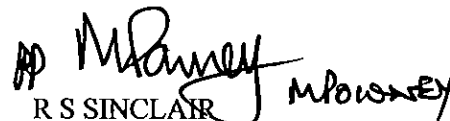
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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

### Schedule

14

Certificate Number Baseefa08ATEX0320/4

15 Description of the variation to the Equipment or Protective System

#### Variation 4.1

To specify a variant of the Type HD1 Addressable Heat Detector Unit in which the Temperature Class is T135°C (T4) instead of T85°C (T6).

This variant also has an increased maximum ambient temperature of 90°C.

This applies only to Type HD1 Addressable Heat Detector Units which do not contain ZD1 or ZD2 addressable modules, which may then be marked:

Ⓢ II 2 GD Ex d IIC Ex tD A21 T135°C (T<sub>amb</sub> -20°C to +90°C) IP6X

or,

Ⓢ II 2 GD Ex d IIC Ex tD A21 T85°C (T<sub>amb</sub> -20°C to +55°C) IP6X

For Type HD1 Addressable Heat Detector Units which do contain an addressable module the marking remains as:

Ⓢ II 2 GD Ex d IIC Ex tD A21 T85°C (T<sub>amb</sub> -20°C to +55°C) IP6X

16 Report Number

SGS Baseefa certification report 14(C)0505.

17 Specific Conditions of Use

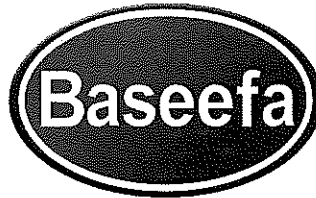
None.

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
465-158	1 of 1	E	10/06/14	Certification GA Addressable Heat Detector HD1 IIC Version



**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: **Baseefa08ATEX0320/3**
- 4** Equipment or Protective System: **Type HD1 Addressable Heat Detector**
- 5** Manufacturer: **Cooper MEDC Limited**
- 6** Address: **Colliery Road, Brookhill Industrial Estate,  
Pinxton, Nottingham, NG16 6JF**

**7** This supplementary certificate extends EC – Type Examination Certificate No. Baseefa08ATEX0320 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. **12/1074**

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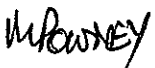
**Baseefa**

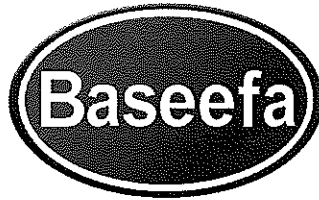
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Baseefa is a trading name of Baseefa Ltd

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

  
**P. S. SINCLAIR**   
DIRECTOR  
On behalf of  
Baseefa



13

## Schedule

14

Certificate Number Baseefa08ATEX0320/3

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

### Variation 3.1

To permit a change of resistance values and the addition of two diodes and a transient voltage suppressor.

16 **Report Number**

None.

17 **Specific Conditions of 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
465-158	1	D	05-11-12	Certification GA Addressable Heat A Detector HD1 IIC Version



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: **Baseefa08ATEX0320/2**

4 Equipment or Protective System: **Type HD1 Addressable Heat Detector**

5 Manufacturer: **Cooper MEDC Limited**

6 Address: **Colliery Road, Brookhill Industrial Estate,  
Pinxton, Nottingham, NG16 6JF**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa08ATEX0320 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. **12/0613**

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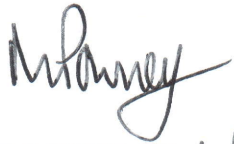
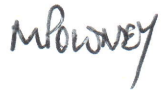
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Registered in England No. 4305578. Registered address as above.

  
P R S SINCLAIR   
DIRECTOR  
On behalf of  
Baseefa



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## Schedule

14

Certificate Number Baseefa08ATEX0320/2

15 Description of the variation to the Equipment or Protective System

### Variation 2.1

To allow the use of an alternative addressable interface having similar dimensions and dissipation.

16 Report Number

None

17 Specific Conditions of Use

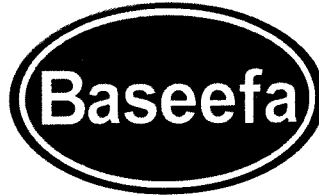
None

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
465-158	1	C	19-07-12	Certification GA Addressable Heat A Detector HD1 IIC Version



**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: **Baseefa08ATEX0320/1**

**4** Equipment or Protective System: **Type HD1 Addressable Heat Detector**

**5** Manufacturer: **Cooper MEDC Limited**

**6** Address: **Colliery Road, Brookhill Industrial Estate,  
Pinxton, Nottingham, NG16 6JF**

**7** This supplementary certificate extends EC – Type Examination Certificate No. Baseefa08ATEX0320 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. **11/1013**

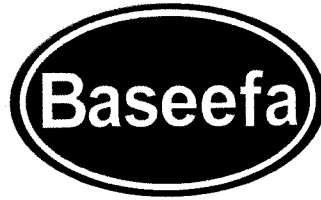
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**Baseefa**

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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 black ink, appearing to read "R S Sinclair".

**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa



13

### Schedule

14

Certificate Number Baseefa08ATEX0320/1

15 Description of the variation to the Equipment or Protective System

#### Variation 1.1

Omission of the addressable module with or without the replacement of the other contents by up to six terminals as Weidmuller Type BK6 or RIKO Components Types 2-402-2 or 2-403-3 or 2-424-4.

In this form the unit is referred to as a Heat Detector HD1

16 Report Number

None

17 Specific Conditions of Use

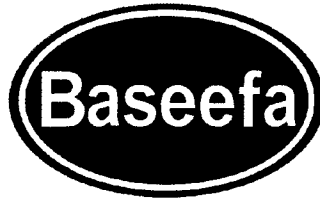
None

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
465-158	1	B	12-12-11	Type HD1 Addressable Heat Detector Assembly



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

- 3 EC - Type Examination Certificate Number: **Baseefa08ATEX0320**
- 4 Equipment or Protective System: **Type HD1 Addressable Heat Detector**
- 5 Manufacturer: **Cooper MEDC Limited**
- 6 Address: **Colliery Road, Brookhill Industrial Estate, 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 Baseefa, 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. **08(C)0718**

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

**EN 60079-0: 2006, EN 60079-1: 2007, EN 61241-0: 2006, EN 61241-1: 2004**

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 :

**⊕ II 2 GD Ex d II C Ex tD A21 T85°C (T<sub>amb</sub> = -20°C to + 55°C) IP6X**

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

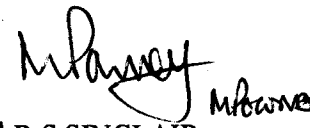
Baseefa Customer Reference No. **0676**

Project File No. **08/0718**

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**Baseefa**

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

  
R S SINCLAIR  
DIRECTOR  
On behalf of  
Baseefa



13

## Schedule

14

Certificate Number Baseefa08ATEX0320

### 15 Description of Equipment or Protective System

**Type HD1 Addressable Heat Detector** comprises an SM87 Component Enclosure, in aluminium, as certificate Baseefa09ATEX0018U and coded Ex d II C.

The cover is secured by four M6 x 12 mm long stainless steel socket headed cap screws of grade A4-80.

A central ½" NPT aperture is fitted with a welded and cemented, thermostatic temperature detector assembly. The detector assembly is retained with Loctite 635 or 638.

The interior of the enclosure contains a rail mounted Ziton A45E-2 Addressable Interface Module, five Weidmuller Type AKZ 1.5 rail mounted terminals and two resistors.

The total maximum heat dissipation is 6.62W.

Internal and external earth terminals are provided.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component) under an EC Type Examination Certificate to Directive 94/9/EC.

When used in dust atmospheres the flameproof cable entries or stopping plugs shall be selected and installed so that the dust tight (IP6X) integrity of the enclosure is maintained.

#### Variation 0.1

Alternative thread sizes for the cover aperture and the corresponding thread of the detector assembly.

### 16 Report Number

Baseefa Certification Report 08(C)0718

### 17 Special Conditions for Safe Use

None

### 18 Essential Health and Safety Requirements

As follows, in addition to those covered by the Standards at item 9.

Principles of Integrated Explosion Safety (1.0.1) with regard to the hermetic sealing of the heat sensor is addressed by 3.6 of the report.

### 19 Drawings and Documents

Number	Sheet	Issue	Date	Description
465-158	1	A	30-09-08	Type HD1 Addressable Heat Detector Assembly
465-153	1	A	16-09-08	SM87 Flat Cover- IIC Details
465-164	-	A	25-03-09	Type HD1 Heat Detector IIC Version