



Electrical Apparatus for Explosive Atmospheres  
**CERTIFICATE OF CONFORMITY**

Cer. No.: CNEx09.0231

**Manufacturer** COOPER MEDC LIMITED  
Address: Colliery Road, Pinxton, Nottingham, NG16 6JF, UK

**Name of Product** HEAT DETECTOR

**Type of Product** HD1

**Marking** Exia II CT6

**Standard** \_\_\_\_\_

**Drawing No.** 296-188

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB3836.1-2000 Electrical Apparatus for Explosive Gas atmospheres - Part 1: General Requirements  
GB3836.4-2000 Electrical Apparatus for Explosive Gas atmospheres - Part 4: Intrinsic safety "i"

**Note** See the appendix.

**Valid Date** From February 18, 2009 to February 17, 2014

**Issue Date** February 18, 2009

**Director**



**CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE  
FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS**

Address: No.20 North Zhongjing Rd, Nanyang, Henan(473008), P.R.China

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Note: This certificate is only valid for the products which identify with the sample(s) tested and verified. Holder(s) of this certificate have the responsibility to ensure the products complying with relevant standard(s).

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1. This product has been certified by Baseefa. Certificate No: Baseefa03ATEX0427.

2. Internal intrinsic parameters of the heat detector:

$C_i=0, L_i=0$

The heat detector should be used with an associated apparatus, a safety barrier ([Exia] II C) to be constructed into an intrinsic safety system. The system should be in accordance with the following formula:

$C_o \geq C_i + C_c, L_o \geq L_i + L_c$

Where:

$C_o$ -Maximum external capacitance

$L_o$ - Maximum external inductance

$C_c$ -Distributed capacitance of the cable connected between the heat detector and its associated barrier

$L_c$ -Distributed inductance of the cable connected between the heat detector and its associated barrier

3. Ambient Temperature:  $-55^\circ\text{C} \leq T_{amb} \leq +55^\circ\text{C}$

4. The installation of this product should be met with the requirements of *GB3836.15-2000 Electrical apparatus for explosive atmospheres-Part 15: Electrical installations in hazardous areas (other than mines)*.

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