



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX SGS 24.0013X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-09-23

Applicant: **Eaton MEDC Ltd**
Unit B
Sutton Parkway
Oddicroft Lane
Sutton in Ashfield
NG17 5FB
United Kingdom

Equipment: **Type HD1 Heat Detector Unit**

Optional accessory:

Type of Protection: **Flameproof, dust protection by enclosure and special protection**

Marking: Ex db sb IIB+H2 T6 Gb (Tamb -20°C to +55°C)
Ex tb IIIC T85°C Db IP6X
or
Ex db sb IIB+H2 T3 Gb (Tamb -20°C to +125°C)
Ex tb IIIC T200°C Db IP6X

Approved for issue on behalf of the IECEx
Certification Body:

M Powney

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

23/09/2024

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

SGS United Kingdom Ltd
Rockhead Business Park
Staden Lane
Buxton, Derbyshire SK17 9RZ
United Kingdom





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Manufacturer: **Eaton MEDC Ltd**
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Sutton Parkway
Oddicroft Lane
Sutton in Ashfield
NG17 5FB
United Kingdom

Manufacturing locations: **Eaton MEDC Ltd**
Unit B
Sutton Parkway
Oddicroft Lane
Sutton in Ashfield
NG17 5FB
United Kingdom

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-33:2012](#) Explosive atmospheres – Part 33: Equipment protection by special protection "s"
Edition:1.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/SGS/ExTR24.0036/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0023/12](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Type HD1 Heat Detector Unit, rated at 5A, 125V ac (max.)

The main enclosure comprises an SM87 Enclosure in aluminium to certificate IECEx BAS 09.0145U. The cover is secured by four M6 x 12 mm long stainless-steel socket head cap screws of grade A4-80. A central 1/2" NPT aperture is fitted with a welded and cemented, thermostatic temperature detector assembly. Alternative thread sizes for the cover and corresponding detector are permissible.

The interior of the enclosure contains up to 6 terminals, and internal and external earth terminals are provided.

The equipment may be marked with one or more of the following alternative maximum contact ratings:

0.5A 125V dc

2A 24V dc

1A, 48V dc

The heat detector may optionally be fitted with up to two resistors, two diodes or four Zener diodes fitted in the terminal block.

Depending on the type of encapsulant used within the probe of the thermostatic temperature detector, the ambient temperature rating of the equipment may be marked as (-20°C to +55°C) or (-20°C to +125°C).

An internal arrangement comprising a 6-way terminal block and a Phoenix MCR-Cube Transducer may be fitted, dissipating a maximum of <0.4W. In this configuration, the total maximum rating of the equipment is unchanged and the type designation is the Type HD1 with MCR-Cube Transducer.

Cable entry holes are provided as specified on the schedule 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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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