



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx SIR 18.0053X

Issue No: 0

Certificate history:

Issue No. 0 (2019-03-14)

Status: **Current**

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Date of Issue: **2019-03-14**

Applicant: **Exheat Industrial Limited**  
Threxton Road industrial Estate  
Watton  
Thetford  
Norfolk IP25 6NG  
United Kingdom

Equipment: **HFT and AFT Range of Flameproof Thermostats**

Optional accessory:

Type of Protection: **Flameproof and Dust Protection by Enclosure**

Marking:

**HFT Series**  
II 2G  
Ex db IIC T6 Gb  
Ta = -60°C to +60°C

**AFT Series**  
II 2 GD  
Ex db IIC T6 Gb  
Ex tb IIIC T85°C Db  
Ta = -60°C to +60°C

Approved for issue on behalf of the IECEx  
Certification Body:

C Ellaby

Position:

Deputy Certification Manager

Signature:  
(for printed version)

Date:

  
2019-03-14

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 the [Official IECEx Website](http://Official IECEx Website).

Certificate issued by:

**SIRA Certification Service**  
CSA Group  
Unit 6, Hawarden Industrial Park  
Hawarden, Deeside, CH5 3US  
United Kingdom

**sira**  
CERTIFICATION





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Manufacturer: **Exheat Industrial Limited**  
Thrextan Road industrial Estate  
Watton  
Thetford  
Norfolk IP25 6NG  
**United Kingdom**

Additional Manufacturing location(s):

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 apparatus 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:

|                                             |                                                                                      |
|---------------------------------------------|--------------------------------------------------------------------------------------|
| <b>IEC 60079-0 : 2017</b><br>Edition:7.0    | Explosive atmospheres - Part 0: Equipment - General requirements                     |
| <b>IEC 60079-1 : 2014-06</b><br>Edition:7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"    |
| <b>IEC 60079-31 : 2013</b><br>Edition:2     | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |

*This Certificate **does not** indicate compliance with electrical 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/SIR/ExTR19.0061/00](#)

Quality Assessment Report:

[FR/LCI/QAR06.0005/11](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The equipment is a thermostat contained in a flameproof enclosure with an external air temperature sensing probe contained in a suitable housing. The HFT is only adjustable internally and the AFT is an externally adjustable version. This equipment is designed to operate in an ambient temperature of -60°C to +60°C.

The AFT series is externally adjustable and consists of two threaded entries of size M20 x 1.5 at the base of the enclosure. The AFT also consists of a probe and adjuster, with both containing O-rings to protect against ingress of dust, as the Ex t type of protection requires.

The HFT is internally adjustable and consists of up to two threaded cable entries of size M20 x 1.5 on the side of the enclosure. The HFT also consists of a threaded probe of size M25 and 6g/6H fit. The HFT is only intended for explosive gas atmospheres.

The flameproof enclosures consist of a spigot flamepath lid to body joint, made of stainless steel (HFT Model) or aluminium (AFT Model). The enclosures also consist of both threaded and cylindrical flamepaths, as well as O-rings (Low Temp Red Silicone) required for Ingress Protection. These O-rings are located between the base and the lid, as well as in the probe housing and adjuster housing (AFT), all the O-rings are retained within a groove.

The maximum total capacity of components included within the equipment are rated to 20A up to 250V AC.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. All unused cable entries shall be fitted with suitably certified blanking elements/stopping plugs. The blanking elements/stopping plugs shall have a certification coding, temperature class, service temperatures (for non-metallic materials), and ingress protection suitable for use with the equipment.
2. The enclosures surface is non-conducting and may generate an ignition-capable level of electrostatic charge under certain extreme conditions. The user shall ensure that the equipment shall not be used in a location where the external conditions are conducive to the build-up of electrostatic charge on non-conductive surfaces. Additionally, the equipment shall only be cleaned with a damp cloth.
3. Special Fasteners shall have a yield strength of at least 450 N/mm<sup>2</sup> and shall be of a grade A4-70 as minimum for the HFT series.
4. Special Fasteners shall have a yield strength of at least 1100 N/mm<sup>2</sup> and shall be of a grade 12.9 as minimum for the AFT series.
5. The thermostat is intended to regulate/control the temperature of devices and hence can be considered as a safety related device.  
The function of this safety related device is not considered under this certification, and shall be considered as part of the overall assembly/installation.
6. Flameproof joints are not intended to be repaired.



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