



EU-TYPE EXAMINATION CERTIFICATE

Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Certificate Number: **Sira 18ATEX1238X** Issue: **0**

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

Applicant: **ExHeat Industrial Limited**

Address: Threxton Road industrial Estate
Watton
Thetford
Norfolk IP25 6NG
United Kingdom

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-1:2014

EN 60079-31:2014 (AFT Only)

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

The marking of the equipment shall include the following:

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

Project Number 70183088

C Ellaby
Deputy Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

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.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	14 March 2019	R70183088A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 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.
- 15.2 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.
- 15.3 Special Fasteners shall have a yield strength of at least 450 N/mm³ and shall be of a grade A4-70 as minimum for the HFT series.
- 15.4 Special Fasteners shall have a yield strength of at least 1100 N/mm³ and shall be of a grade 12.9 as minimum for the AFT series.

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SCHEDULE

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- 15.5 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.
- 15.6 Flameproof joints are not intended to be repaired.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**
The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.
- 17 **CONDITIONS OF MANUFACTURE**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

Certificate Annexe



Certificate Number: Sira 18ATEX1238X
Equipment: HFT and AFT Range of Flameproof
Thermostats
Applicant: ExHeat Industrial Limited

Issue 0

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
2004.15.DN	1 of 2	07	01 Mar 19	Descriptive Notice
2004.15.TF	1 of 2	08	01 Mar 19	Technical File
2004.15.01	1 of 1	06	01 Mar 19	HFT (ATEX & IECEx Approved) General Arrangement Drawing Industrial Product
2004.15.02	1 to 2	05	01 Mar 19	AFT (ATEX & IECEx Approved) General Arrangement Drawing Industrial Product
2004.15.03	1 of 1	02	01 Mar 19	HFT (ATEX & IECEx Approved) Wiring General Arrangement Drawing Industrial Product
2004.15.04	1 of 1	02	01 Mar 19	AFT (ATEX & IECEx Approved) Wiring General Arrangement Drawing Industrial Product
2004.15.12	1 to 2	06	01 Mar 19	HFT Terminal Box Body (ATEX & IECEx Approved) General Arrangement Drawing industrial Product Drawing
2004.15.13	1 of 1	05	01 Mar 19	AFT Terminal Box Detail (ATEX Approved) General Arrangement Drawing industrial Product
2004.15.41	1 of 1	06	01 Mar 19	HFT Nameplate (ATEX & IECEx Approved) General Arrangement Drawings Industrial m Product
2004.15.42	1 of 1	06	01 Mar 19	AFT Nameplate (ATEX & IECEx Approved) General Arrangement Drawings Industrial m Product
2004.15.89	1 of 1	05	01 Mar 19	AFT Terminal Box Lid (ATEX & IECEx Approved) General Arrangement Drawings Industrial Product
2004.15.90	1 of 1	05	01 Mar 19	HFT Terminal Box Lid (ATEX & IECEx Approved) General Arrangement Drawings Industrial Product
2004.15.91	1 of 1	05	01 Mar 19	HFT Probe Housing (ATEX & IECEx Approved) General Arrangement Drawing Industrial Product
2004.15.93	1 to 3	05	01 Mar 19	AFT Probe Housing and Adjuster Details General Arrangement Drawing (ATEX & IECEx Approved) Industrial Product Pages 1 to 3



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