



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 17ATEX1356X** Issue: **2**

4 Equipment: **FXT Range of Thermostats**

5 Applicant: **EXHEAT Industrial Limited**

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

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

8 CSA Group Netherlands B.V., notified body number 2813 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.

9 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 60079-0:2012/A11:2013 EN 60079-1:2014 EN 60079-18:2015 EN 60079-31:2014

10 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.

11 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.

12 The marking of the equipment shall include the following:



II 2 G D

Ex mb IIC T* Gb

Ex mb IIIC T*°C Db

Ta = -50 °C to + 60 °C T6 / T85 °C

Ta = -50 °C to + 80 °C T5...T1 / T100°C...T450°C

Refer to the Schedule for the other models

Project Number 0482

Signed: 

Title: Director of Operations

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

CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 17ATEX1356X
Issue 2

13 DESCRIPTION OF EQUIPMENT

FXT-DI (in-line thermostat)
FXT-DR (remote thermostat)



II 2 G D
Ex db IIC T* Gb
Ex tb IIIC T*⁰C Db
-50 °C to + 195 °C set point 140 °C max T3 / T200°C **
-50 °C to + 180 °C set point 125 °C max T3 / T200°C
-50 °C to + 130 °C set point 75 °C max T4 / T135 °C
-50 °C to + 95 °C set point 40 °C max T5 / T100 °C
-50 °C to + 80 °C set point 25 °C max T6 / T85 °C
** Omerin Silicable Cable only

The FXT range of thermostats can be supplied in FXT-D (flameproof) and FXT-M (encapsulated) versions and are used for the temperature control of electrical equipment. The thermostats are supplied with factory fitted cable which is not user replaceable.

The FXT-DR is a remote mounting thermostat. The thermostat has an aluminium body with a threaded entry and cable gland at one end which is fitted with a permanently connected cable.

The FXT-DI is an inline mounting thermostat. The thermostat has an aluminium body with threaded entries at both ends. One entry is fitted with a certified cable gland and the other is fitted with a certified thread adaptor and certified cable gland. Both ends are fitted with permanently connected cables.

Cable Size - 0.75 mm² or 1.0 mm²
Switch rating Current - 9 A maximum
- Voltage - 277 V ac maximum
- Normally closed, opens at a set point which can be selected in accordance with the table below.

Temperature Class / Surface Temperature	Switch SET Point max	Upper Ambient Limit
	°C	°C
T3/T200 °C	140	195
T4/T135 °C	75	130
T5/T100 °C	40	95
T6/T85 °C	25	80

The FXT-M is an inline encapsulated thermostat with a steel body and cable at both ends. The complete assembly is covered with a protective sleeve.

Cable Size - 0.75 mm² or 1.0 mm²
Switch rating 6 A, 120 Vac
- 3.3 A, 240 Vac
- 4.8 A, 277 Vac
- Normally closed.



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 17ATEX1356X
Issue 2

Variation 1 - This variation introduced the following changes:

- i. The introduction of an alternative method of support for the internal thermostat switch of the FXT-M.
- ii. The marking of the FXT-M is changed to allow temperature classes and surface temperatures up to T1 / T450°C when used in an ambient of -50°C to + 80°C.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	13 February 2018	R70133566A	The release of the prime certificate.
1	21 May 2018	R70178552A	The introduction of Variation 1.
2	15th October 2019	0482	<ul style="list-style-type: none">• Transfer of certificate Sira 17ATEX1356X from Sira Certification Service to CSA Group Netherlands B.V..

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

15.1 The equipment is not field serviceable by the user and shall not be opened.

15.2 The equipment shall be installed so that pulling, flexing or mechanical damage of the cable is prevented.

The following apply to the FXT-M versions only

15.3 The equipment has non-conductive surfaces which are a potential electrostatic charging hazard – see the instructions for guidance.

15.4 The equipment shall be installed so that it is protected from impact and exposure to direct sunlight.

15.5 The equipment shall be supplied via a fuse that is mounted externally in a safe area and rated at 277 V ac, 6 A maximum. The fuse shall have a breaking capacity which exceeds the prospective short circuit current of the supply.

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.

Certificate Annexe



Certificate Number: Sira 17ATEX1356X

Equipment: FXT Range of Thermostats

Applicant: EXHEAT Industrial Limited

Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
2004.81.01	1 of 1	1	22 Dec 17	Arrangement FXT-DI In-cable Type
2004.81.42	1 of 1	1	11 Dec 17	Labels FXT Range
2004.81.20	1 of 1	1	22 Nov 17	Body FXT-DI In-cable Type
2004.81.02	1 of 1	1	22 Nov 17	Arrangement FXT-DR Remote Type
2004.81.21	1 of 1	1	22 Nov 17	Body FXT-DR Remote Type
2004.81.50	1 of 1	1	22 Nov 17	Arrangement FXT-M

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
2004.81.50	1 of 1	2	16 May 18	Arrangement FXT-M

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

CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands