



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 03ATEX1001** Issue: **4**

4 Equipment: **CT-FL Thermostat and AJB/D Junction Box**

5 Applicant: **Heat Trace Limited**

6 Address: **Meres Edge
Chester Road
Helsby
Frodsham WA6 0DJ
UK**

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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 60079-0:2009

EN 60079-1:2007

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.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC 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 2G

Ex d IIC T6 Gb

Ta = -20°C to +50°C

Project Number 70006102

C Ellaby
Deputy Certification Manager

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The CT-FL Thermostat and AJB/D Junction Box comprise a cylindrical aluminium enclosure with a threaded cover. The cover incorporates a sealing ring to offer weatherproofing. The enclosure has four lugs with plain holes that are used to fix the enclosure to the mounting surface. Cable entry holes are provided for the accommodation of suitably certified cable glands or stopping plugs between the fixing lugs. Inside, the enclosure may be fitted with a terminal block or a thermostat unit employing one or two capillary temperature sensors to operate the thermostat contacts. External and internal earthing facilities are provided.

The AJB/D Junction Box is fitted with a general purpose terminal block, the maximum permitted dissipated power inside the enclosure is 16.8 W.

The CT-FL Thermostat is fitted with a thermostat unit, this is rated at 16 A, 230 V or 400V. One or two capillary sensors pass through a brass gland assembly fitted to one of the cable entries. Cement is employed to maintain the flameproof properties of the enclosure and a stress relief coil is fitted externally.

The surface of the associated enclosure may either be anodised or coated with paint, powder or epoxy

Variation 1 - This variation introduced the following changes:

- i. Following appropriate re-assessment to demonstrate compliance with the requirements of the EN 60079 series of standards, the documents previously listed in section 9, EN 50014:1997 (amendments A1 to A2) and EN 50018:2000, were replaced by those currently listed, the markings in section 12 were updated accordingly.

Variation 2 - This variation introduced the following changes:

- i. The drawings were put onto new templates.
- ii. In addition to the existing M20 x 1.5 cable entries located in the enclosure walls, the option to have M16 x 1.5 and M25 x 1.5 entries was permitted. These additional entry thread size and form options were included in the manufacturer's installation instructions and an ISO symbol from ISO 3864 was put on the equipment nameplate as a warning for the user.
- iii. The labels were changed to correct the certification code in line with Variation 1.

Variation 3 - This variation introduced the following changes:

- i. The introduction of a layer of paint, powder or epoxy to the surface of the CT-FL Thermostat and AJB/D Junction Box, the product description was amended accordingly. The maximum thickness of this layer is limited to 0.2 mm.



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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	10 February 2003	R53A9192A	The release of prime certificate.
1	25 April 2006	R51A14380A	Issued to recognise the Change of address
2	31 May 2011	R21911A/00	This Issue covers the following changes: <ul style="list-style-type: none">All previously issued certification was rationalised into a single certificate, Issue 2, Issues 0 to 1 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.The introduction of Variation 1.
3	19 June 2013	R30844A/00	The introduction of Variation 2.
4	30 June 2014	R70006102A	The introduction of Variation 3.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

None

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 CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 Coating the flamepaths with paint, powder or epoxy is not permitted.

Certificate Annexe

Certificate Number: Sira 03ATEX1001
Equipment: CT-FL Thermostat and AJB/D Junction Box
Applicant: Heat Trace Limited



Issue 0

Drawing No.	Sheet	Rev.	Date	Title
JB4031/S	1 of 1	A	16 Oct 02	General arrangement
JB4032/S	1 of 1	A	16 Oct 02	Lid
JB4034/S	1 of 1	A	08 Jan 03	Labels
JB4035/S	1 of 1	A	13 Jan 03	Assembly of capillary thermostat and terminals

Issue 1 No new drawings were introduced.

Issue 2

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
JB4031/S	1 of 1	B	08 Jul 10	General arrangement
JB4032/S	1 of 1	B	08 Jul 10	Lid
JB4034/S	1 of 1	B	08 Jul 10	Labels
JB4035/S	1 of 1	B	08 Jul 10	Assembly of capillary thermostat and terminals

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
JB4031/S	1 of 1	5	3 Jun 13	Ex d Aluminium Junction Box – GA Drawing
JB4034/S	1 of 1	4	12 Jun 13	Certification Label – Type CT – FL Thermostat
JB4032/S	1 of 1	3	12 Jun 13	Ex d Aluminium Junction Box – Lid Drawing
JB4035/S	1 of 1	3	12 Jun 13	General Assy Of CT-FL Capillary Thermostat Unit

Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
JB4031/S	1 of 1	6	11 Jun 14	Ex d Aluminium Junction Box – GA Drawing

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