

## **RANGE CT-FL and AJB/D Ex d IIC Terminal Enclosure**

1. This enclosure has been designed as an electrical terminal enclosure (AJB/D) and as an enclosure for temperature control kit (CT-FL) including thermostat suitable for installation within an explosive atmosphere as described in EN 60079-0.

### 2. Installation

The enclosure must be fixed into position using screws. It is important that the cover is securely fitted to the body of the enclosure.

All cover fixing screws must be tightened down. The exposed parts of the capillary should be protected from impact up to the strain relief fitting (spring) on the enclosure.

### 3. Cable Entry Devices

These must be selected in accordance with IEC 60079-14 and the marking on the cover of the enclosure and must be suitable for Ex d applications.

### 4. "T" Ratings

The enclosure is approved for installation in various ambient temperatures. The marking on the label on the cover must comply with the ambient temperature into which the enclosure is being installed. When used as a general purpose junction box AJB/D (thermostat not fitted) the following rating applies:

T6 = -20°C to +50°C maximum power dissipation: 16.80 W

CAUTION: For all other uses, please refer to note 12.

### 5. Conductor Installation

All conductors must be fully tightened down within the terminal blocks. Conductor tightening screws are normally below the surface of the terminal, it is important that the correct size of screwdriver is used. An oversized screwdriver will break the insulation around the terminal.

### 6. Earthing

The enclosure is fitted with M5 internal and external earth connections; a suitable ring crimp terminal lug must be used to secure the earth conductor.

### 7. Maintenance

Periodic inspection of this enclosure is necessary, refer to EN 60079-17 Clause 4.3 for guidance.

Particular attention should be paid to: gaskets, cover fixing screws and earth assemblies, if any are lost or require replacement, contact Heat Trace for the appropriate part. Repairing or modifying equipment invalidates the certification and your plant safety inspector may require you to justify that the modification or repair has been carried out in accordance with EN 60079-14. It is therefore in your interests to contact Heat Trace for approved spare parts.

## 8. Surrounding Area Conditions

The Junction Box has been manufactured from cast aluminium and is fitted with galvanized steel cover fixing screws and a silicone sponge gasket. The performance of these materials should be considered with respect to contact with aggressive substances with which the enclosure may come into contact.

The enclosure is intended for use under normal industrial conditions and must not be installed in an area where extreme vibration may occur.

## 9. Conditions For Safe Use

None.

## 10. Misuse

This enclosure must be used as an electrical enclosure only. It is not intended for any other function.

## 11. Tools

Cross headed screwdriver, Blade headed screwdriver, Adjustable spanner and Allen key.

## 12 CAUTION

Changes to the components fitted within this enclosure are not permitted, please refer to HTL for advice if changes are required. Each enclosure carries a unique serial number, which is recorded within our system, listing all parts and accessories included at the time of manufacture.

The installation of this product must be carried out by suitably trained and qualified personnel only.

Heat Trace Ltd will not accept any responsibility for any damage, injury or any form of loss due to products not being installed or used in strict accordance with these instructions. If in doubt please contact us.

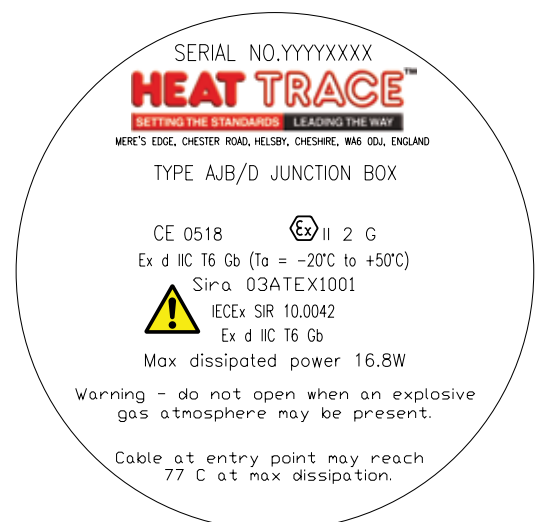
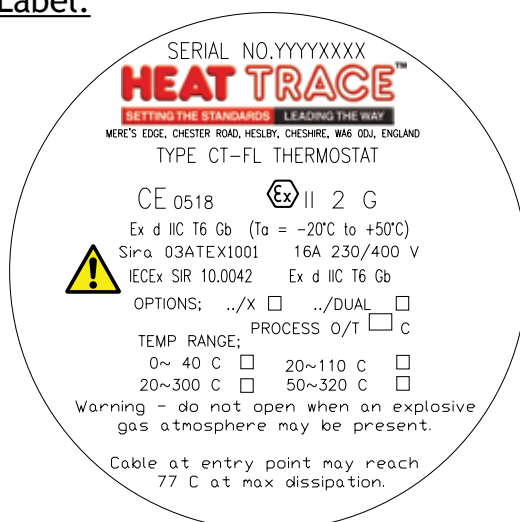
Epoxy cement material should be considered with regard to attack by aggressive substances that may be present in the hazardous area.

Do not exceed the maximum current.

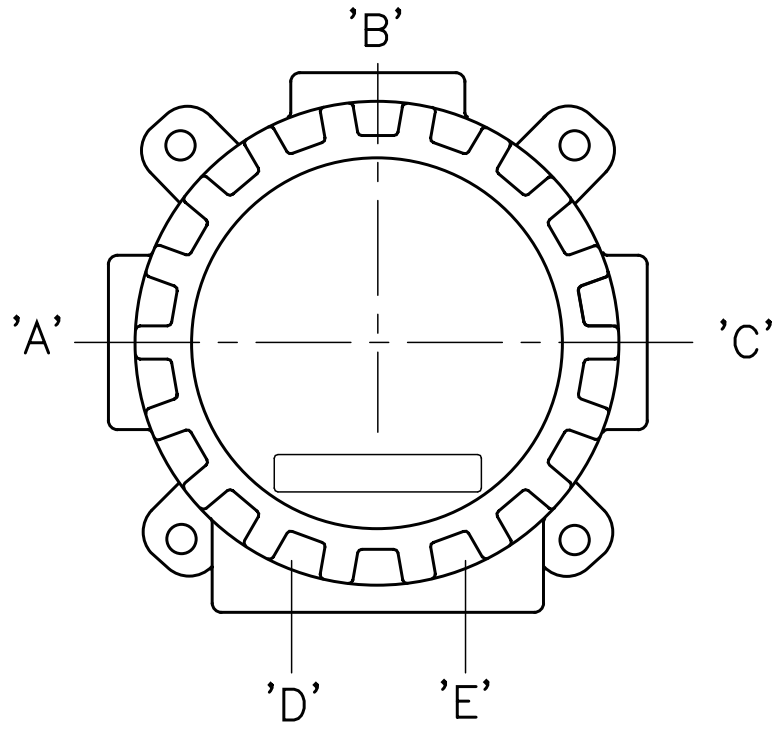
Care must be taken not to damage the capillary.

The temperature probes will not withstand excessive mechanical stress.

## Certification Label:



ENTRY LETTERS & POSITIONS:



THREAD SIZES

	M16	M20	M25
ENTRY 'A'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENTRY 'B'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENTRY 'C'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENTRY 'D'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENTRY 'E'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**EC Declaration Of Conformity**  
**Heat Trace Ltd**

Heat Trace declares under our sole responsibility that the product(s) listed below conform with the relevant provisions of the following Directives:

94/9/EC	Potentially Explosive Atmospheres (ATEX)
2006/95/EC	The Low Voltage Directive
2004/108/EC	The Electromagnetic Compatibility Directive

**CT-FL Thermostat and AJB/D Junction Box**  
**A Cylindrical Aluminium Enclosure with a Threaded Cover**

The marking of the equipment shall include the following:

 **II 2G**  
**Ex d IIC T6 Gb**  
**Ta = -20°C to +50°C**

Conformity has been demonstrated with reference to the following documentation:

**EC Type Examination Certificate Sira 03ATEX1001 Issue 4 Dated 30 June 2014**  
**Quality Assurance Notification Sira 02ATEX M196 Dated 25 April 2013**

Notified Body:  
**Sira Certification and Test Ltd (0518)**  
**Rake Lane, Eccleston, Chester**  
**CH4 9JN**

Compliance with the Essential Health & Safety Requirements has been assessed by reference to the following standards:

**EN 60079-0:2012+A11:2013**  
**EN 60079-1:2014**

15 September 2015



J. O'Connor  
Director Of Technology & Vice Chairman  
Heat Trace Ltd.