

## **RANGE JB9000 Junction Box**

1. This enclosure has been designed as an electrical terminal enclosure suitable for installation within an explosive atmosphere as described in BS EN 50014.

### 2. Installation

The enclosure must be fixed into position using external fixing lugs provided for this purpose. Under no circumstances must the enclosure be supported by way of any cable entry device. The gasket must be secured between the body and the cover. It is important that the cover is securely fitted to the body of the enclosure.

All cover fixing screws must be tightened down.

### 3. Cable Entry Devices

These must be selected in accordance with the marking on the cover of the enclosure.

### 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. The maximum power dissipated is marked on the enclosures certification label. The maximum current allowed per terminal way is limited to 26A for a temperature classification of T4 and 16A for a temperature classification of T6. During installation the engineer must apply the relevant T Class to the certification label.

### 5. Earthing

The enclosure is fitted with a brass metric hexagon headed internal and external earth connection; a suitable ring crimp terminal lug must be used to secure the earth conductor.

### 6. Maintenance

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

Particular attention should be paid to: tightening of terminal screws, 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.

## 7. Surrounding Area Conditions

The Junction Box has been manufactured from engineering polymer and is fitted with galvanized steel cover fixing screws, a silicone gasket and brass earth screws. 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.

## 8. Ingress Protection

The enclosure has been tested to IP66 and with the cover fully tightened down and the use of suitable cable entry devices will maintain this protection under normal working conditions, however a minimum protection of IP54 must be achieved.

## 9. Conditions For Safe Use

The cable gland and cable may reach 76°C in service when marked for T4.

## 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 a set of Allen keys.

## 12. CAUTION

Changes to the terminals fitted within this enclosure are not permitted, please refer to HTL for advice if terminal 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.

## Certification Label:

