# Heat Tracing Junction Box with Electronic Thermostat ( R160/JBETH/1W/6/25A )

Junction Box complete with Electronic Thermostat for temperature control of pipes and vessels.

- Available for use in safe and hazardous areas.
- Ingress Protection IP66.
- Enclosures suitable for Gas Group IIA, IIB and IIC.
- Full range of accessories and termination kits available.

**R** Series Solution

## **INTRODUCTION**

As part of our commitment to innovation in the industry, Heat Trace Ltd is offering a customised Exd solution.

This electronic thermostat is an adjustable temperature, single-point, ON-OFF thermostat, comprising a Pt100 sensor.

The electronic thermostat has a glass window to monitor the present temperature, set the required temperature, and monitor the heat tracing on/off status.

The electronic thermostat may be used to provide process temperature control in safe areas, or Zone 1 or 2 hazardous areas by switching the heating circuits at the desired temperatures.

The enclosure is made of high grade, cast aluminium and painted with RAL 7035 paint.







## **SPECIFICATION**

### ENCLOSURE:

Material:Standard Copper Free AluminiumPaint shade:RAL 7035, light greyProtection:EX (db) - IP66Rated voltage:1.1kV AC / DCArea suitability:Zone 1 / Zone 2, IIA / IIB / IICCable entries:2 off (1 off for power cable, 1 off<br/>for heat tracing cable or Control)

## ELECTRONIC THERMOSTAT SPECIFICATION:

Earthing:	Internal and external earthing
Sensor Type:	Pt100
Temperature	
setting adjustment:	set buttons
Sensor tube protection	on: Stainless steel conduit
Sensor lead length:	1.5m
Number of	
terminals: 6	6 off (2 live, 2 Neutral & 2 Earth)

#### **APPROVAL DETAILS:**

ATEX	-	CML 23ATEX1502X
IECEx	-	IECEx CML 23.0177X
UKCA	-	CML 23UKEX1503X

#### EQUIPMENT MARKING:

#### IECEx:

Gas: Ex db IIC T6/T5 Gb Dust: Ex tb IIIC T85°C/T100°C Db -60°C or -20°C<Ta< +45°C / +60°C / +75°C

### ATEX/UKCA:

Gas: ⑤ II 2 G D Ex db IIC T6/T5 Gb Dust: ⑥ II 2 G D Ex tb IIIC T85°C/T100°C Db -60°C or -20°C <Ta< 45°C/+60°C/+75°C

### STANDARD KIT CONTENT:

- Junction box with specified entries fitted with with temperature controller, temperature controller bracket.
- Terminal & accessories (terminal, end plate, stopper, shorting link, terminal marker where applicable).
- 2 off stainless steel earthing stud.
- O ring, grub screw, allen key for grub screw.
- Stainless steel certification plate.
- Stainless steel tag plate.
- 2 off M8x12 Stainless nut, bolt and washer set for mounting
- Cable entry marking sticker.
- External earthing stud is fitted with PVC sleeved copper lug.
- Earthing sticker
- Instruction manual
- Wiring diagram.

### SAFE USE:

Only certified cable glands & accessories of required Ex protection shall be used.

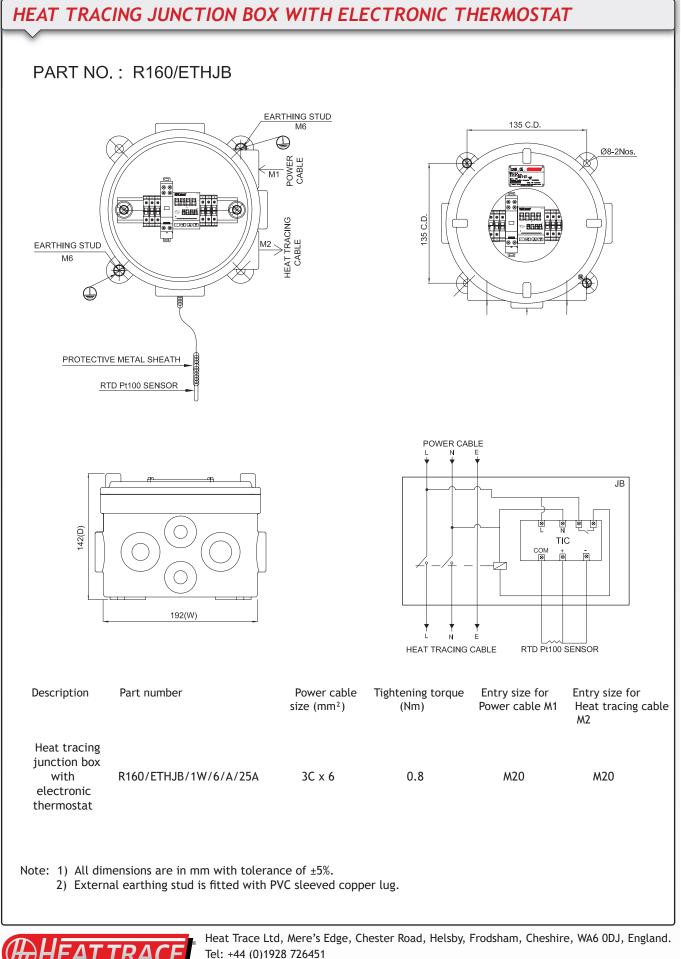
Each entry shall have no more than one thread adaptor. A stopping plug shall not be used with a thread adaptor.

If holes or unused cable entry are left open, explosion protection can no longer be guaranteed.

Close open holes using stopping plugs approved for required type of protection.

### ACCESSORIES:

Heat Trace Ltd supply a complete range of accessories including termination/splice kits, end seals, junction boxes and controls.



www.heat-trace.com Email: info@heat-trace.com

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