Heat Tracing Junction Box with Thermostat

(R130/JBST/4/120/A/30A)

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

R Series Solution

- Available for use safe and hazardous areas.
- Enclosures suitable for Gas Group IIA, IIB and IIC.
- Ingress Protection IP66

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 Full range of accessories and termination kits available

(R130/JBST/4/120/A/30A)

INTRODUCTION

As part of our commitment to innovation in the industry, Heat Trace Limited is offering an Exd solution.

The thermostat can measure the surface temperature of systems such pipes or vessels by securing the sensor to the surface with adhesive aluminium tape.

It is suitable for connection of one power cable and one heating cable, allowing the thermostat to directly control the heating circuit.

The junction box 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 temperature.

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

The equipment is tested and approved for hazardous are a to following standards and ATEX Directive 2014/34/EU: IEC 60079-0:2017 and EN IEC 60079-0:2018, IEC 60079-1:2014 and EN 60079-1:2014, IEC 60079-31:2022 and EN 60079-31:2014, IEC 60529:2013 and EN 60529:1992/A2:2013





SPECIFICATION

THERMOSTAT SPECIFICATION: **ENCLOSURE:** Material: Standard Copper Free Aluminium Temp. Setting Switch Sensor Sensor accuaracy range rating diameter length Paint Shade: RAL 7035, light grey (Amp/Volt) (°C) (°C) (mm) (mm) Protection: Ex (db) - IP66 0-120 5 +3 20/250 106 **Rated Voltage:** 1.1kV AC/DC Stainless Steel Capillary tube material: Area Suitability: Zone 1 / Zone 2, IIA / IIB / IIC Capillary tube protection: Stainless Steel Conduit Sensor type: Liquid filled Cable Entries: 2 Off (1 Off for Power Cable, 1 Off Sensor material: **Stainless Steel** for Heat Tracing Cable) Capillary tube length 1.5 Mtr. **EQUIPMENT MARKING:** Switch type: SPST **IECEx:** Gas: Ex db IIC T6/T5 Gb Switch life: 100,000 operations Dust: Ex tb IIIC T85°C/T100°C Db **Temperature setting** (-)60°C <Ta< (+)60°C adjustment: Internal Tamperproof Switch ATEX/UKCA: Gas: 🚯 II 2 G D Ex db IIC T6/T5 Gb Dust: 🕢 II 2 G D Ex tb IIIC T85°C/T100°C Db Earthing: Internal and external earthing (-)60°C <Ta< (+)60°C Number of Terminals: 6Nos. (2L+2N+2E)

APPROVAL DETAILS:

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

Size of Terminals: 4Sqmm

SAFE USE:

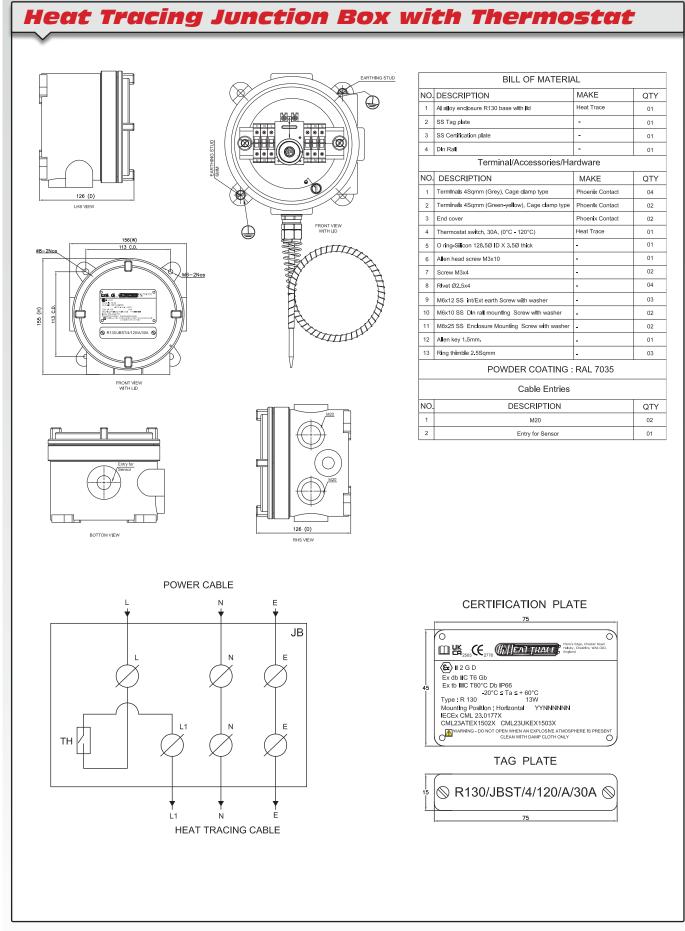
- Only certified cable glands & accessories of required Ex protection shall be used.
- Each entry shall have no more than one thread adapter. A stopping plug shall not be used with a thread adapter.
- If holes or unused cable entry are left open, explosion protection can no longer be guaranteed.
- Close open holes using stopping plug approved for required type of protection.

STANDARD KIT CONTENT:

- Junction Box with specified entries fitted with Mechanical thermostat, thermostat switch bracket.
- Terminal & Accessories (Terminal, End Plate, Stopper, Terminal Marker whichever 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 Steel 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.

ACCESSORIES:

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



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