Heat Tracing Junction Box with Thermostat (R130/JBST/4/320/30A)

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

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

INTRODUCTION

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

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

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

The junction boxes maybe 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 thermostat is available in various ranges of temperature control.

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





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SPECIFICATION

ENCLOSURE:

Material:	Standard Copper Free Aluminium
Paint shade:	RAL 7035, light grey
Protection:	EX (db) - IP66
Rated voltage:	1.1kV AC / DC
Area suitability:	Zone 1 / Zone 2, IIA / IIB / IIC
Cable entries:	2 off (1 off for power cable,
	1 off for heat tracing cable
	or control cable.)

THERMOSTAT SPECIFICATION:

	Temp. Range (°C)	Setting accuaracy (°C)	Switch rating (Amp/Volt)		Sensor length (mm)
	50-320	±11	20/250	5	60
Capillary tube material:Stainless steelCapillary tube protection:Stainless steel conduitSensor type:Liquid filledSensor material:Stainless steelCapillary tube length:1.5m					conduit I filled
Switch Switch			10	0,000 ope	SPST
Temperature setting adjustment: Internal tamperproof switch Earthing: Internal and external earthing Number of terminals: 6 off (2 live, 2 Neutral & 2 Earth) Size of terminals: 4mm ² (suitable for 2.5 - 4mm ² conductors)					
					4mm ²

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: 🚯 II 2 G D Ex db IIC T6/T5 Gb Dust: 🕢 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 mechanical thermostat, thermostat switch 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.



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