



PRODUCT SPECIFICATIONS

Terminator™ ZT-C

PIPEWALL SENSING THERMOSTATS

APPLICATION

The ZT-C is designed for use as an adjustable control thermostat for freeze protection and temperature maintenance applications requiring tank wall or pipewall sensing. The ZT-C is available in four temperature control and bulb exposure temperature ranges and has an antistatic flexible capillary armoured complete with capillary gland and insulation entry device.

The ZT-C includes an expediter to facilitate attaching the thermostat directly on the pipe and permits two heating cables to enter and be connected within the enclosure.

Terminator ZT-C kit is approved for use in ordinary (nonclassified) and hazardous (classified) areas.

RATINGS/SPECIFICATIONS

Enclosure rating..... IP66
Maximum pipe exposure temperature..... 250°C
Minimum installation temperature.....-60°C
Operating ambient temperature

-60°C ≤ Ta ≤ +55°C.....16 Amps Max, T6 85°C

-60°C ≤ Ta ≤ +50°C.....25 Amps Max, T5 100°C

Voltage rating..... 230 Vac nominal up to 253 Vac¹

Switch rating25 A (Ohmic, NC contact)

Switch type..... Controller

Electrical connection².....Terminal block³

Adjustable control range⁴

ZT-C-100 0°C to 100°C

ZT-C-190 0°C to 190°C

ZT-C-300 0°C to 300°C

ZT-C-500 20°C to 500°C

Maximum control differential/accuracy

ZT-C-100 7% /-1 K to +7 K

ZT-C-190 2.5% /-2 K to +10 K

ZT-C-300 2.5% /-2 K to +16 K

ZT-C-500 2.5% /-2 K to +28 K

Maximum bulb exposure temperature

ZT-C-100220°C

ZT-C-190220°C

ZT-C-300345°C

ZT-C-500530°C

Bulb dimensions/material/capillary length

ZT-C-100 6 x 65 mm/stainless steel/1 m

ZT-C-190 6 x 65 mm/stainless steel/1 m

ZT-C-300 6 x 55 mm/stainless steel/1 m

ZT-C-5006 x 280 mm/stainless steel/1 m

Max. electrical switching frequency.....180 cycles/hour

Electrical durability operating cycles. min.. 100.000 cycles

Mechanical durability operating cycles.min. 250.000 cycles

Notes

1. 400 VAC Nom/440 Vac Max/16A version available on request.

2. Thermostats are shipped with an M25 dust cap that can be replaced with an Ex e approved gland to permit power or heating cable connection.

3. The 230 Vac terminal block consists of six 4 mm² line/load terminals and two PE terminals.

4. The 300°C and 500°C thermostats are only available in wall mount bracket.



CONSTRUCTION

- 1 Junction Box, Glass-Reinforced Polymer with DIN Rail Mounted Terminal Blocks
- 2 Pipe-Mount Expediter, Glass-Reinforced Polymer
- 3 Capillary Ambient Temperature Sensor

CERTIFICATIONS/APPROVALS

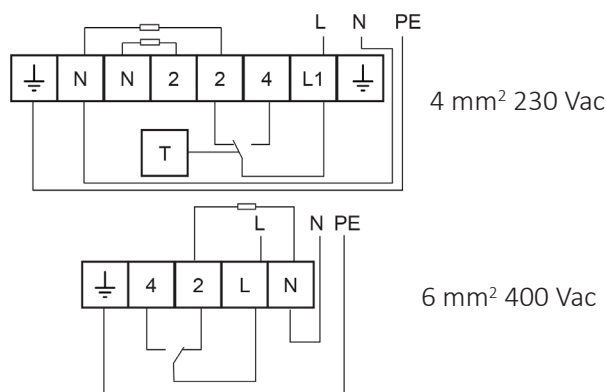


In accordance with the EU ATEX Directive 2014/34/EU
Certificate EPS 19ATEX1216X



International Electrotechnical Commission
IEC Certification Scheme for Explosive Atmospheres
Certificate IECEx EPS19.0094X

TYPICAL WIRING DIAGRAM



PRODUCT REFERENCE LEGEND

ZT-C-100-P-XP	
Area Designation Z = Zone Areas	Mounting⁴ XP = Pipe WP = Wall
Kit Type T = Thermostat	Cable Profile P = RSX, TSX, VSX, VSX-HT, BSX, HTSX, KSX, FP, HPT MI = MIS, MIQ M = TEK, HTEK
Switch Type C = Controller	Control Range 100 = 0°C to 100°C 190 = 0°C to 190°C 300 = 0°C to 300°C 500 = 20°C to 500°C