

APPLICATION

The ZT-C is designed for use as an adjustable control thermostat for freeze protection and temperature maintenance applications requiring tank wall or pipe wall sensing. The ZT-C is available in four temperature control and bulb exposure temperature ranges and has an antistatic flexible capillary armouring 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 temperature250°C
Minimum installation temperature60°C
Operating ambient temperature
-60°C ≤ Ta ≤ +55°C16 Amps Max, T6 85°C
-60°C ≤ Ta ≤ +50°C25 Amps Max, T5 100°C
Voltage rating230 Vac nominal up to 253 Vac¹
Switch rating25 A (Ohmic, NC contact)
Switch typeController
Electrical connection ² Terminal block ³
Adjustable control range ⁴
ZT-C-1000°C to 100°C
ZT-C-1900°C to 190°C
ZT-C-3000°C to 300°C
ZT-C-50020°C to 500°C
Maximum control differential/accuracy
ZT-C-1007% / -1 K to +7 K
ZT-C-1902.5% / -2 K to +10 K
ZT-C-3002.5% / -2 K to +16 K
ZT-C-5002.5% / -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-1006 x 65 mm/stainless steel/1 m
ZT-C-1906 x 65 mm/stainless steel/1 m
ZT-C-3006 x 55 mm/stainless steel/1 m
ZT-C-5006 x 280 mm/stainless steel/1 m
Max. electrical switching frequency180 cycles/hour
Electrical durability operating cycles min

Notes

- 1. 400 Vac Nom/440 Vac Max/16 A 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.

Mechanical durability operating cycles min.

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

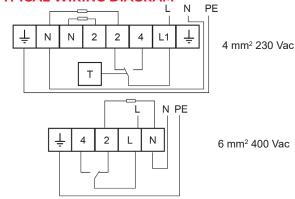
CERTIFICATIONS/APPROVALS

(ϵ_{0344}) II 2 GD Ex db eb IIC T6...T5 Gb, Ex tb IIIC T85°C...T100°C Db FM 10ATEX0058X

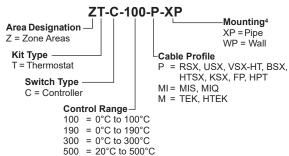


IECEX FMG 10.0022X Ex db eb IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db

TYPICAL WIRING DIAGRAM



PRODUCT REFERENCE LEGEND



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100.000 cycles

250.000 cvcles