

Terminator™ ZT

Pipewall Sensing Thermostats

Product Specifications

Application . . .

Electric Heat Tracing Control

The ZT-WP and ZT-XP are designed for use as adjustable control thermostats for freeze protection and temperature maintenance applications requiring tankwall or pipewall sensing. Each thermostat is available in four temperature control and bulb exposure temperature ranges. The ZT-WP is designed to be wall-mounted (or pipe-mounted using XP-1 stainless steel mounting bracket¹) and has a flexible capillary armoured complete with capillary gland and insulation entry device. The ZT-XP 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 kits are approved for use in ordinary (nonclassified) and hazardous (classified) area's.

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 Vac ²
Switch rating	25 A (Ohmic, NC contact)
Switch type	Controller
Electrical connection ³	Terminal block ⁴
Adjustable control range ⁵	
ZT-C-100	0°C to 100°C
ZT-C-200	0°C to 200°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-200	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-100	230°C
ZT-C-200	230°C
ZT-C-300	345°C
ZT-C-500	530°C
Bulb dimensions/material/capillary length	
ZT-C-100	6 x 76 mm/stainless steel/1 m
ZT-C-200	6 x 76 mm/stainless steel/1 m
ZT-C-300	6 x 55 mm/stainless steel/1 m
ZT-C-500	6 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. 300,000 cycles

Notes . . .

- Refer to Form TEP0057U for additional accessories.
- 400 Vac/16A version available on request.
- 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.
- Terminal block consists of six line/load terminals and two PE terminals.
- The 300°C and 500°C thermostats are only available in wall mount bracket.



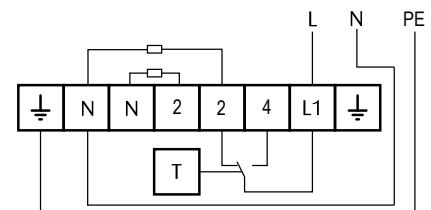
Construction . . .

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

Certifications/Approvals . . .

II 2 G Ex db eb IIC T5-T6 FM10ATEX0058X
 II 2 D Ex tb IIIC T100°C-T85°C
International Electrotechnical Commission
 IEC Certification Scheme for Explosive Atmospheres
 FMG 10.0022X

Typical Wiring Diagram . . .



Product Reference Legend . . .

ZT-C-100-P-XP	
Area Designation	Mounting Options
Z = Zone Areas	XP = Pipe-Mount Expediter
Kit Type	WP = Wall Mount Bracket with Expediter
T = Thermostat	Cable Profile
Switch Type	P = RSX, TSX, VSX, BSX, HTSX, KSX, FP, HPT
C = Controller	R = TESH, TES
Control Range	MI = MIS, MIQ
100 = 0°C to 100°C	M = TEK, HTEK
200 = 0°C to 200°C	
300 = 0°C to 300°C	
500 = 20°C to 500°C	

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