

# Terminator™ ZT

## Ex 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 bracket) 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) areas, and are certified to the ATEX directive and IECEx for use in Category 2 and 3 (Zone 1 and 2) classified area's.

#### Ratings/Specifications . . .

Enclosure rating.....	IP66
Maximum pipe exposure temperature.....	232°C
Minimum installation temperature.....	-60°C
Operating ambient temperature	
-60°C ≤ Ta ≤ +50°C.....	T5 100°C
-60°C ≤ Ta ≤ +40°C.....	T6 85°C
Maximum voltage rating.....	230 Vac <sup>2</sup>
Switch rating .....	25 A (Ohmic, NC contact)
Switch type .....	Controller or Limiter
Electrical connection <sup>3</sup> .....	terminal block <sup>4</sup>
Adjustable control range <sup>5</sup>	
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 . . .

1. Refer to Form TEP0057U for additional accessories.
2. 400 Vac/16A version available on request.
3. Thermostats are shipped with an M25-B-Exe Ex e approved blind plug that can be replaced with an Ex e approved gland to permit power or heating cable connection.
4. Terminal block consists of six line/load terminals and two PE terminals.
5. The 300°C and 500°C thermostats are only available in wall mount bracket.



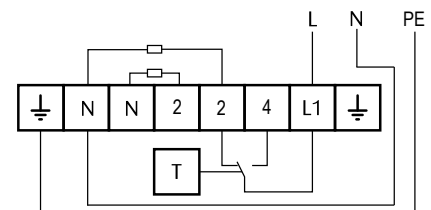
#### Construction . . .

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

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



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