

# Terminator™ ZT

## EEx ed 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 pipewall or tankwall 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<sup>1</sup>) and has a PVC coated galvanised steel 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 (non-classified) areas, and are certified to the ATEX directive 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	-45°C
Operating ambient temp	-45°C to +55°C
Maximum voltage rating	250 Vac
Switch rating	16 A (Ohmic, NC contact)
Switch type	SPDT
Electrical connection <sup>2</sup>	terminal block <sup>3</sup>
Adjustable control range <sup>4</sup>	
ZT-1-50	-20°C to 50°C
ZT-1-100	0°C to 100°C
ZT-1-200	0°C to 200°C
ZT-1-300	50°C to 300°C
Maximum control differential/accuracy	
ZT-1-50	3 - 5 % / +0 to -3°K
ZT-1-100	3 - 5 % / +0 to -4°K
ZT-1-200	3 - 5 % / +0 to -8°K
ZT-1-300	3 - 5 % / +0 to -10°K
Maximum bulb exposure temperature	
ZT-1-50	60°C
ZT-1-100	115°C
ZT-1-200	230°C
ZT-1-300	345°C
Bulb dimensions/material/capillary length	
ZT-1-50	6 x 150 mm/stainless steel/1 m
ZT-1-100	6 x 115 mm/stainless steel/1 m
ZT-1-200	6 x 101 mm/stainless steel/1 m
ZT-1-300	6 x 63 mm/stainless steel/1 m
Max. electrical switching frequency	180 cycles/hour
Electrical durability operating cycles	min. 100.000 cycles
Mechanical durability oper. cycles	min. 300.000 cycles

### Notes . . .

- Refer to Form TEP0057U for additional accessories.
- Both thermostats are shipped with an M25-HPT/PWR-Exe EExe approved power gland and an M25-B-Exe EEx e approved blind plug that can be replaced with an EEx e approved gland to permit power or heating cable connection.
- Terminal block consists of six 4-mm<sup>2</sup> line/load terminals and two 4-mm<sup>2</sup> PE terminals.
- The ZT-1-300-XP is shipped with a pipe-mount expediter having a maximum pipe exposure temperature of 232°C.



### Construction . . .

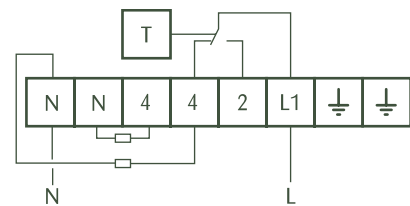
- Junction Box, Glass-Reinforced Polymer with DIN Rail Mounted Terminal Blocks
- Pipe-Mount Expediter, Glass-Reinforced Polymer
- Capilair Temperature Sensor

### Certifications/Approvals . . .

**CENELEC** European Organisation for Electrotechnical Standardisation  
Hazardous (Classified) Locations

**CE** **Ex** II 2 G & D EEx e IIC T5 **D** 02 ATEX 132552X

### Typical Wiring Diagram . . .



### Product Reference Legend . . .

<b>ZT-1-50-L-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> L = RSX, TSX, VSX S = BSX, HTSX, KSX, FP, HPT R = TESH, TES
<b>Switch Type</b> 1 = SPDT	<b>Control Range</b> 50 = -20°C to 50°C 100 = 0°C to 100°C 200 = 0°C to 200°C 300 = 50°C to 300°C



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