



PRODUCT SPECIFICATIONS

Terminator™ ZT

PIPEWALL SENSING THERMOSTATS

APPLICATION . . .

Electric Heat Tracing Control

The ZT is designed for use as an adjustable control thermostat for freeze protection and temperature maintenance applications requiring tankwall or pipewall sensing. The ZT is available in four temperature control and bulb exposure temperature ranges and has a flexible capillary armoring complete with capillary gland and insulation entry device. The ZT 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 kit is 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 Vac¹

Switch rating 25 A (Ohmic, NC contact)

Switch type Controller

Electrical connection² Terminal block³

Adjustable control range⁴

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

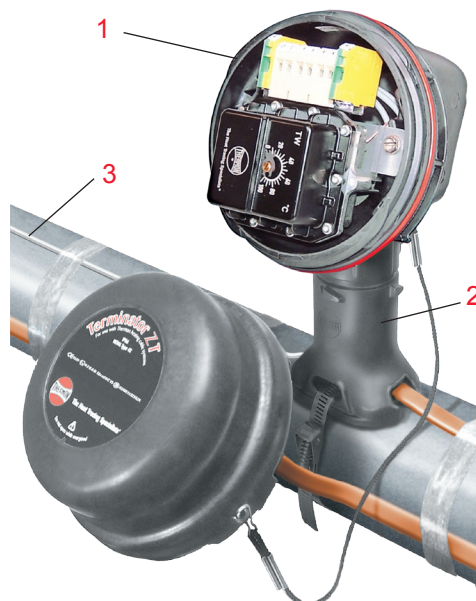
Notes . . .

1. 400 Vac/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. Terminal block consists of six 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

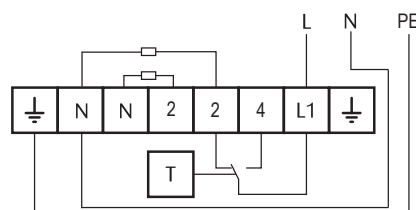
3 Capillary Temperature Sensor

CERTIFICATIONS/APPROVALS . . .

CE II 2 G Ex db eb IIC T5-T6 FM10ATEX0058X
II 2 D Ex tb IIIC T100°C-T85°C

IEC IECEx International Electrotechnical Commission
IEC Certification Scheme for Explosive Atmospheres
FMG 10.0022X

TYPICAL WIRING DIAGRAM . . .



PRODUCT REFERENCE LEGEND . . .

ZT-C-100-P	
Area Designation	Cable Profile
Z = Zone Areas	P = RSX, TSX, VSX, BSX, HTSX, KSX, FP, HPT
Kit Type	MI = MIS, MIQ
T = Thermostat	M = TEK, HTEK
Switch Type	Control Range
C = Controller	100 = 0°C to 100°C
	200 = 0°C to 200°C
	300 = 0°C to 300°C
	500 = 20°C to 500°C

THERMON The Heat Tracing Specialists®



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