



PRODUCT SPECIFICATIONS
Terminator™ ZT-C
 PIPEWALL SENSING THERMOSTATS

APPLICATION

The ZT-C is designed for use as an adjustable control thermostat for freeze protection and temperature maintenance applications requiring tank wall or pipewall sensing. The ZT-C is available in four temperature control and bulb exposure temperature ranges and has an antistatic flexible capillary armoured 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 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 ¹
Switch rating	25 A (Ohmic, NC contact)
Switch type.....	Controller
Electrical connection ²	Terminal block ³
Adjustable control range ⁴	
ZT-C-100	0°C to 100°C
ZT-C-190	0°C to 190°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-190	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	220°C
ZT-C-190	220°C
ZT-C-300	345°C
ZT-C-500	530°C
Bulb dimensions/material/capillary length	
ZT-C-100	6 x 65 mm/stainless steel/1 m
ZT-C-190	6 x 65 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.	250.000 cycles

Notes

- 400 VAC Nom/440 Vac Max/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.
- The 230 Vac terminal block consists of six 4 mm² line/load terminals and two PE terminals.
- The 300°C and 500°C thermostats are only available in wall mount bracket.



CONSTRUCTION

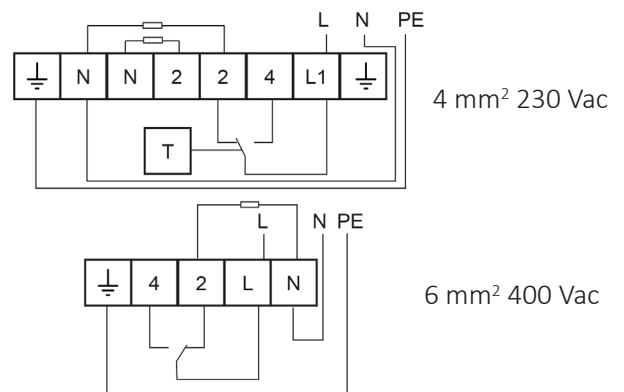
- Junction Box, Glass-Reinforced Polymer with DIN Rail Mounted Terminal Blocks
- Pipe-Mount Expediter, Glass-Reinforced Polymer
- Capillary Ambient Temperature Sensor

CERTIFICATIONS/APPROVALS

In accordance with the EU ATEX Directive 2014/34/EU Certificate EPS 19ATEX1216X

International Electrotechnical Commission
 IEC Certification Scheme for Explosive Atmospheres
 Certificate IECEx EPS19.0094X

TYPICAL WIRING DIAGRAM



PRODUCT REFERENCE LEGEND

ZT-C-100-P-XP	
Area Designation Z = Zone Areas	Mounting* XP = Pipe WP = Wall
Kit Type T = Thermostat	Cable Profile P = RSX, TSX, VSX, VSX-HT, BSX, HTSX, KSX, FP, HPT MI = MIS, MIQ M = TEK, HTEK
Switch Type C = Controller	Control Range 100 = 0°C to 100°C 190 = 0°C to 190°C 300 = 0°C to 300°C 500 = 20°C to 500°C