

TC2 and TC2/XP Plus

Pipewall Sensing Thermostats with Limiters

Product Specifications

Application . . .

Electric Heat Tracing Control

The TC2 and TC2/XP Plus, equipped with two adjustable control thermostats, are designed for heat tracing applications where a high temperature limiter is required. The first thermostatic switch energises the heater below the control-setpoint; the second switch de-energises the heater if the temperature sensed exceeds the limiter setpoint.

The TC2 is designed to be wall-mounted (or pipe-mounted using Thermon's XP-1 stainless steel mounting bracket¹) and has a PVC coated galvanised steel flexible capillary armoured complete with capillary gland and insulation entry device. The TC2/XP Plus includes an expediter to facilitate attaching the thermostat directly on the pipe² and permits one heating cable to enter and be connected within the enclosure.

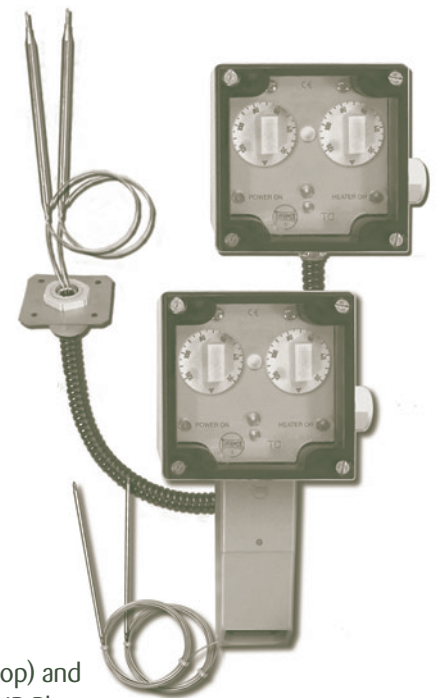
Indicating lamps for power-on and heater-on are visible through a transparent cover. Both thermostats utilise nonmetallic enclosures suitable for harsh industrial environments to provide watertight and dusttight protection (per IP65). External hardware is stainless steel.

The TC2 and TC2/XP Plus meet the requirements for use in nonhazardous locations.

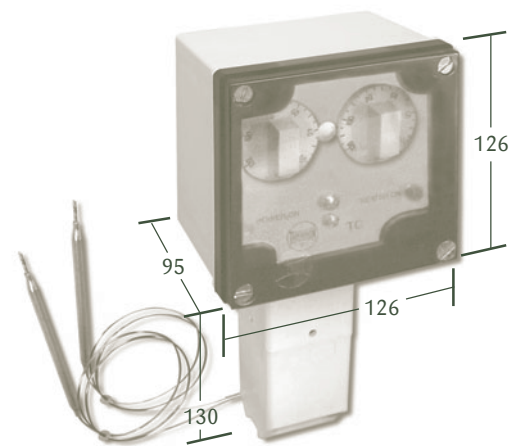
Ratings/Specifications . . .

Voltage rating	400 Vac
Switch rating	
230 Vac	16 A (Ohmic, NC contact)
400 Vac	10 A (Ohmic, NC contact)
Switch type	SPDT
Operating ambient temperature	-30° to +55° C
Electrical connection ³	terminal block ⁴
Bulb material	stainless steel
Capillary length	1 m
Approximate weight	1.5 kg

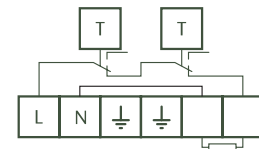
Product Type	Adj. Range °C	Max. On/Off Diff. °C	Max. Bulb Temp. °C	Bulb Size mm
Controller				
TC2-1-40/XXX	0-40	±4	130	6 x 140
TC2-1-120/XXX	20-120	±4	145	6 x 140
TC2-1-300/XXX	50-300	±10	320	4 x 165
Limiters				
TC2-1-XXX/120	20-120	±4	145	6 x 140
TC2-1-XXX/300	50-300	±10	320	4 x 165



TC2 (top) and TC2/XP Plus



Typical Wiring Diagram . . .



Certification/Approval . . .



Notes . . .

1. Refer to Form TEP0057U for additional accessories.
2. TC2-1-300/xxx and the TC2-1-XXX/300 is not available with an XP Plus expediter.
3. Both thermostats are shipped with an M25-PWR-IND power gland and an M25-B-IND blind plug that can be replaced with an M25 gland to permit power or heating cable connection.
4. Terminal block consists of four 4-mm² line/load terminals and one 4-mm² PE terminal.



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