

TS Thermostat

1 Application

TS .. is an explosion-proof thermostat.

Designed as a two-point controller, and when connected to an electric heater, it can regulate the temperature in a housing to the pre-set, nominal set-point (see installation). The TS controller switches on when the temperature is below the set point and switches off above the set point.

The TS can also be used as an alarm. In this version, the TS AM (Alarmer), switches on when the temperature is above the set point and switches off below the set point.

There is either a thermostat (TS) or an alarm (TS..AM) in a housing

2 Featurepotting

- Robust design with aluminium housing.
- Completely encapsulated with silicone potting
- ½" FNPT threaded Connection

3 Control Accuracy

The air temperature in a heated housing is not the same everywhere. Depending on the difference between inside and outside temperature (delta T), insulation, configuration of the heater and the installed equipment etc., the temperature (e.g. between top and bottom) can fluctuate by 10 °C or more.



4 Types and Technical Data

The figure in the type designation corresponds to the nominal setpoint in F/ °C.

TS (Temperature Controller)		
Type	Switch on	Switch off
TS -15	+5 F/ -15 °C	+23 F/ -5 °C
TS 10	+50 F/ +10 °C	+64 F/ +18 °C
TS 20	+68 F/ +20 °C	+82 F/ +28 °C
TS 30	+86 F/ +30 °C	+100 F/ +38 °C
TS 40	+104 F/ +40 °C	+119 F/ +48 °C
Option	Other set points on request	

TS AM (Alarmer)		
Type	Switch off	Switch on
TS 5 AM	+41 F/ +5 °C	+61 F/ +16 °C
TS 20 AM	+68 F/ +20 °C	+79 F/ +26 °C
TS 30 AM	+86 F/ +30 °C	+104 F/ +40 °C

CSA Certificate	1438607 (LR 43674)
CSA Type of protection	Cl. 1, Div.1 GP ABCD Factory sealed
Measurement	1" x 2"
Nominal voltage	Max. 277 V
Temperature tolerance	+ / - 3 K
Maximum rated current	10 A
Operating temperature range	-58 F to +356 F/ -50°C to +180°C
Ingress protection	IP 68
Material: Seawater-proof aluminium, black anodized	



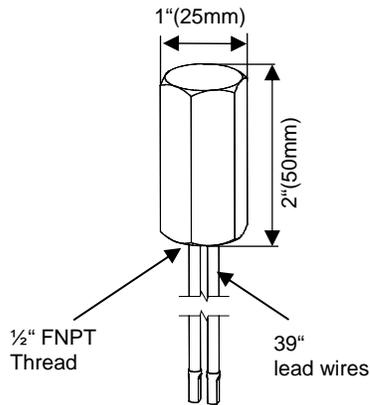
TS Thermostat

5 Options

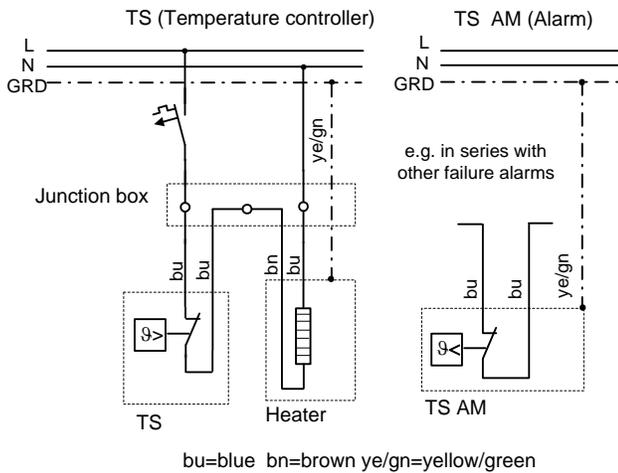
Other designs are available upon request, e.g.

- ATEX approved configuration (TAE)
- Bi-standard: for worldwide application
- Approvals for other countries upon request

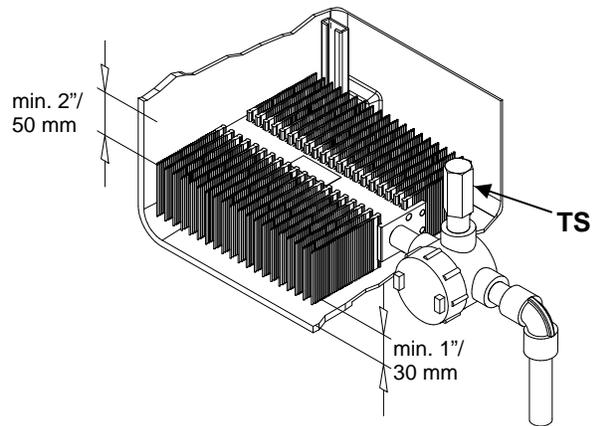
6 Installation



6.1 Electrical wiring



6.2 On VARITHERM



6.3 On MULTITHERM

