FLAIR

THERMOSTAT *series TE50*

ON/DEMAND ○
ALARM/AUX ○

TEMP

ON/OFF

SYSTEM

FLAIR

For proportional line voltage control of electric baseboard, element or any type of resistance heater.
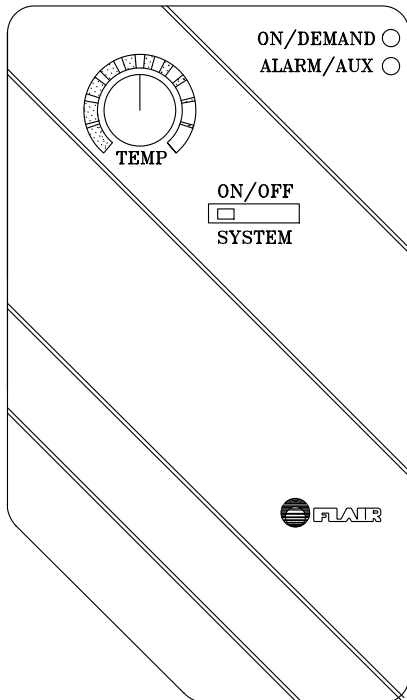
BENEFITS & SPECIAL FEATURES

- Proportional output provides fast and accurate temperature control.
- Proportional integral control eliminates overshoot and droop.
- The most economical way to operate resistance heat. Proportional control provides just the energy that is required, significantly reducing demand and consumption.
- Easy setting.
- No batteries required.
- Remote temperature sensor (optional).
- Manual on/off override.
- Electronic temperature limiting and locking.
- Low and high limit temperature alarm can activate a dry contact to switch an external control.
- System status indicators.
- Single pole/single throw and double pole /single throw models.
- Warmer/cooler scale standard.
- Fahrenheit and Celsius scales included.
- Models to accomodate 120/208/230/277 vac.

DIMENSIONS

3-1/4"
(82.6 mm)

5-43/64"
(144.1 mm)

1-3/16"
(30.2 mm)

1-35/64"
(39.3 mm)
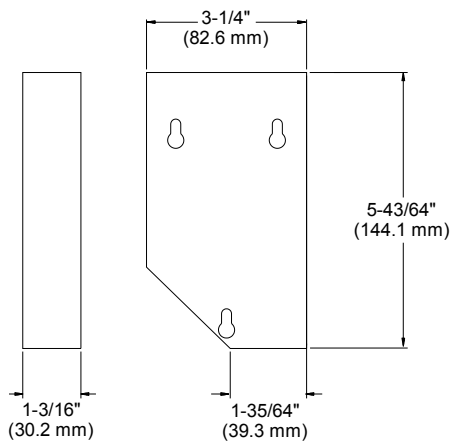
SPECIFICATIONS

Operating Voltage:	120/208/230/ 277 vac (-15%, +10%, 50-60 Hz)
Temperature Range:	50°F - 90°F (10°C - 32°C)
Temperature Differential:	
Heating:	approximately ±0.8°F (.4°C)
Sensor System:	Negative Temperature Coefficient (NTC)
Standard:	internal
Optional:	remote temperature
Switches:	
Slide:	ON/OFF
Rotating:	set TEMPerature
Indicator LED's:	ON (Steady Green) / DEMAND +/- (Flashing Green) ALARM (Flashing Red) / AUX (Steady Red)
Security:	Electronic temperature limiting and locking
Dimensions:	$5^{43}/_{64}$ x $3^{1}/_{4}$ x $1^{3}/_{16}$ Inches (144.1 x 82.6 x 30.2 mm)

MODEL NUMBERS AND DESCRIPTIONS FOR VARIOUS APPLICATIONS
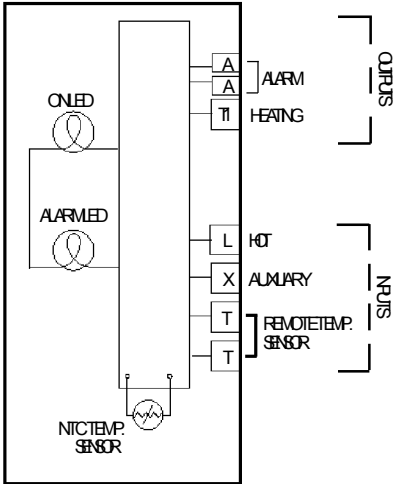
Model Number: TE501040;   120 vac

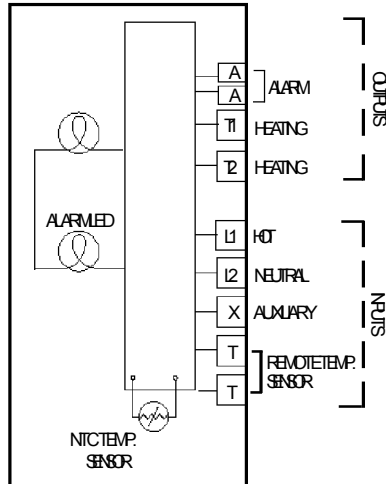Description: Electric heat SPST

Switching Current at rated voltage:
120 vac: minimum 22 Amps
Alarm: minimum 1 Amp

Weight: .4 lbs. (880 g)

Model Number: TE501050;   208 vac
                TE501070;   230 vac
                TE501090;   277 vac
Description: Electric heat DPST

Switching Current at rated voltage:
208-277 vac: minimum 19 Amps
Alarm: minimum 1 Amp

Weight: .4 lbs. (880 g)

ACCESSORIES

Remote Temperature Sensor	TX101001

Backplates may be used to cover large holes in walls or mount to utility boxes:

horizontal	TX201001
vertical	TX202001
square	TX203001

Transformers:

40 VA	TR140100
20 VA	TR120100

Relay Transformers:

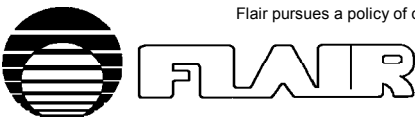|	
20 VA (2) SPST 120 VAC relay	TR440200
20 VA (1) SPST 120 VAC relay	TR440300

APPLICATIONS

- Zone heating.
- Residential (Single or multi-family, Apartments, Co-ops, Condominiums).
- Commercial (Stores, Restaurants, Offices).
- Industrial
- Institutional (Hospitals, Hotels, Motels).

REFERENCES

For More Information On:	See:
Wiring, jumper, potentiometer settings and applications	Instruction sheet
Other thermostats	This section
Zone Actuators	Star Actuator section
Zone Valves	Star Valve section
Wiring Panels	Control Panels section
Warranty & pricing	Pricing & terms section

UL approved   CSA approved