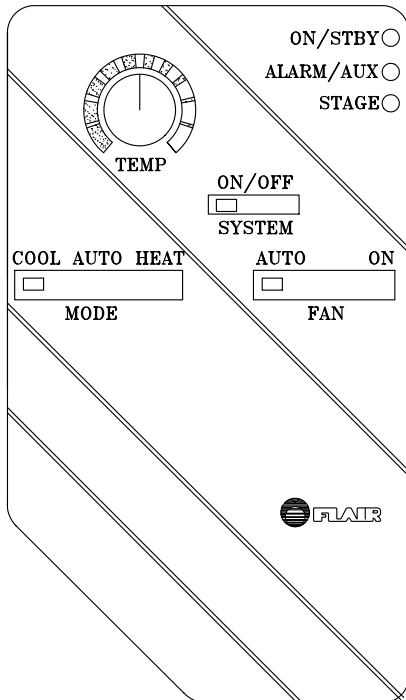


ELECTRONIC

THERMOSTAT *series TE21*

For central (main) or zoned control of heating and cooling systems. Available in single- and multi-stage versions with automatic changeover.



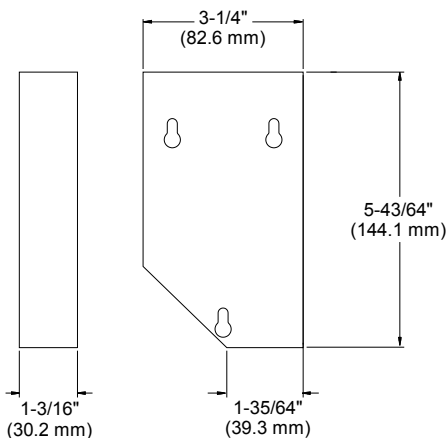
BENEFITS & SPECIAL FEATURES

- 4 minute time delay for compressor protection (may be bypassed).
- No batteries required.
- Remote temperature sensor (optional).
- Return air temperature sensor (optional).
- Automatic heating/cooling changeover.
- Manual on/off override.
- Electronic temperature limiting and locking.
- Low and high limit temperature alarms can activate a dry contact to switch an external control.
- Continuous (on) or intermittent (auto) fan control.
- System status indicators.
- Warmer/cooler scale (standard).
- Fahrenheit and Celsius scales included.
- Available in up to 3 stages of heating and 2 stages of cooling control.

APPLICATIONS

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

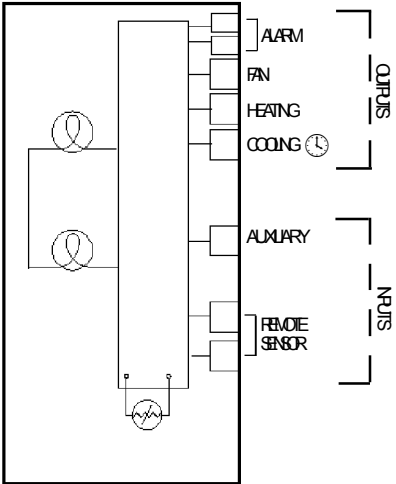
DIMENSIONS



SPECIFICATIONS

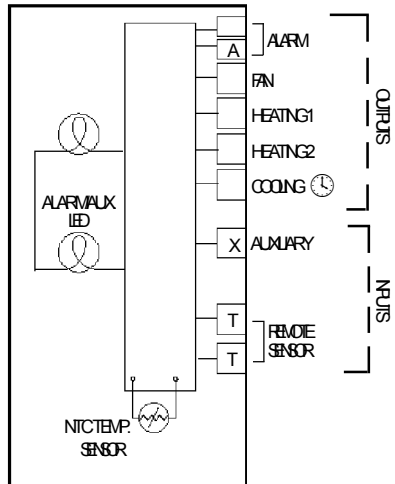
Operating Voltage:	24 vac (-15%, +10%, 50-60 Hz)
Temperature Range:	50°F - 90°F (10°C - 32°C)
Temperature Differential:	
Heating:	approximately ±0.8°F (.4°C)
Cooling:	approximately ±0.8°F (.4°C)
Between stages:	2° F (1.1° C)
Dead Band:	4°F (2.2° C)
Sensor System:	Negative Temperature Coefficient (NTC)
Standard:	internal
Optional:	remote temperature
Optional:	return air temperature
Compressor Protection:	switched 4 minute time delay
Switches:	
Slide:	SYSTEM: ON/OFF
Slide:	FAN: AUTO/ON
Slide:	MODE: COOL/AUTO/HEAT
Rotating:	Set: TEMPERATURE
Indicator LED's:	ON (Steady Green) / STBY (Flashing Green) ALARM (Flashing Red) / AUX (Steady Red)
Staging (orange):	Stage One (Off); Stage Two (On); Stage Three (Flashing)
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



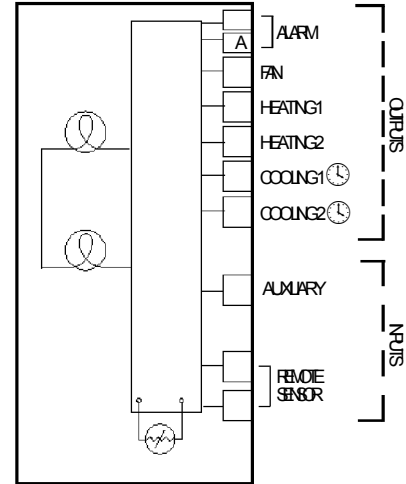
Model Number: TE211120
Description: 1 stage heat, 1 stage cool

Switching Current at 24 VAC:
Cooling: 1 Amp
Heating: 1 Amp
Fan: 1 Amp
Alarm: 1 Amp
Auxiliary: 1 Amp
Weight: 4 lbs. (880 g)



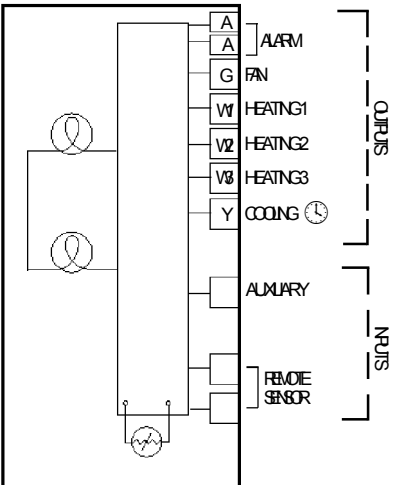
Model Number: TE212120
Description: 2 stage heat, 1 stage cool

Switching Current at 24 VAC:
Cooling: 1 Amp
Heating 1: 1 Amp
Heating 2: 1 Amp
Fan: 1 Amp
Alarm: 1 Amp
Auxiliary: 1 Amp
Weight: 4 lbs. (880 g)



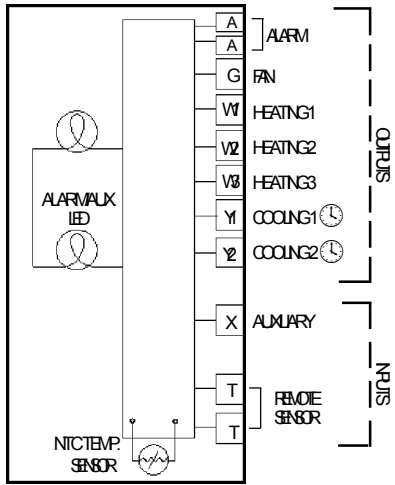
Model Number: TE212220
Description: 2 stage heat, 2 stage cool

Switching Current at 24 VAC:
Cooling 1: 1 Amp
Cooling 2: 1 Amp
Heating 1: 1 Amp
Heating 2: 1 Amp
Fan: 1 Amp
Alarm: 1 Amp
Auxiliary: 1 Amp
Weight: 4 lbs. (880 g)



Model Number: TE213120
Description: 3 stage heat, 1 stage cool

Switching Current at 24 VAC:
Cooling 1: 1 Amp
Heating 1: 1 Amp
Heating 2: 1 Amp
Heating 3: 1 Amp
Fan: 1 Amp
Alarm: 1 Amp
Auxiliary: 1 Amp
Weight: 4 lbs. (880 g)



Model Number: TE213220
Description: 3 stage heat, 2 stage cool

Switching Current at 24 VAC:
Cooling 1: 1 Amp
Cooling 2: 1 Amp
Heating 1: 1 Amp
Heating 2: 1 Amp
Heating 3: 1 Amp
Fan: 1 Amp
Alarm: 1 Amp
Auxiliary: 1 Amp
Weight: 4 lbs. (880 g)

ACCESSORIES

Remote Temperature Sensor	TX101001
Return Air Temperature Sensor	TX101011
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

⌚ Indicates this output is protected by 4 minute time delay

REFERENCES

For More Information On:	See:
Remote Model	TF21 data sheet
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 sect.
Warranty & pricing	Pricing & Terms section
Backplates	Accessories sheet

Flair pursues a policy of constant improvement. For this reason, all specifications are subject to change without notice.



Flair International Corporation

P.O. Box 13271 • 600 Old Willets Path • Hauppauge, New York 11788 • Tel: (516)234-3600 • Fax: (516) 234-3610 • E-mail: Flair.International@juno.com