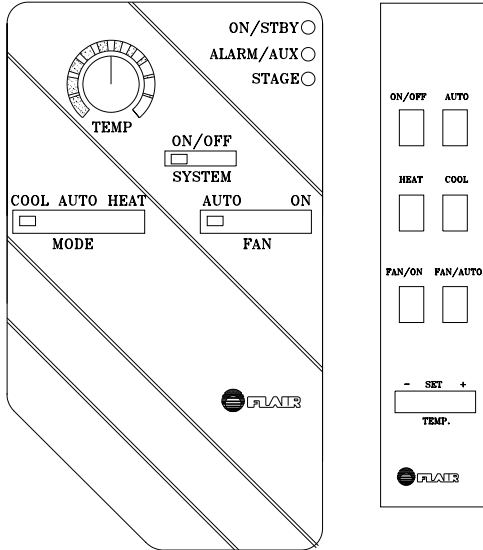


ELECTRONIC

THERMOSTAT *series TF21*

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

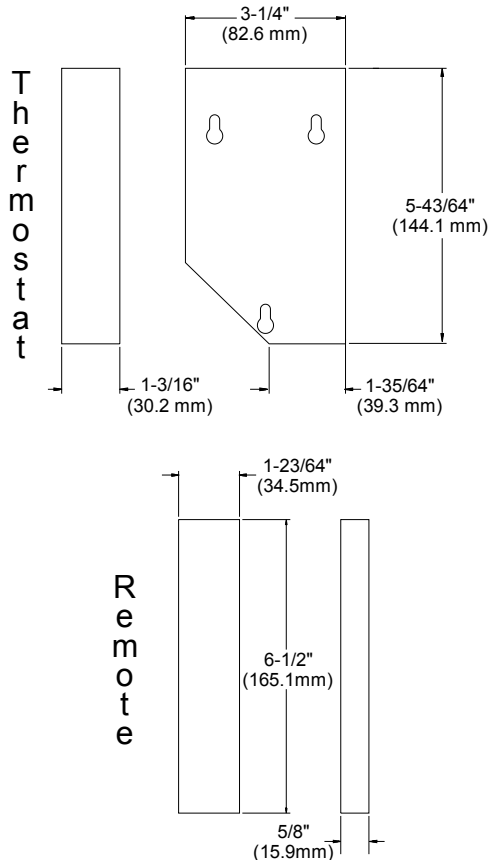


BENEFITS & SPECIAL FEATURES

Same benefits as the TE21 with the addition of remote control:

- 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 single and up to 5 stages of heating/cooling control.
- Infra-red remote control internal receiver (standard).
- Infra-red remote control transmitter (optional).
- Infra-red remote control external receiver (optional).

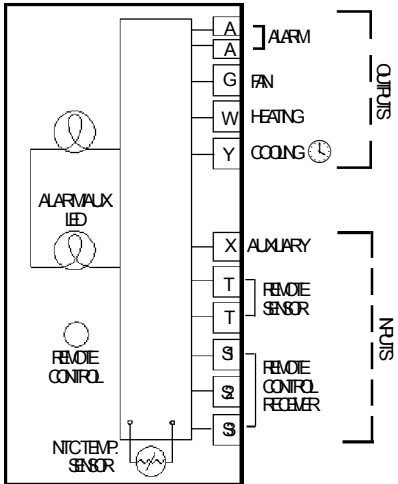
DIMENSIONS



SPECIFICATIONS

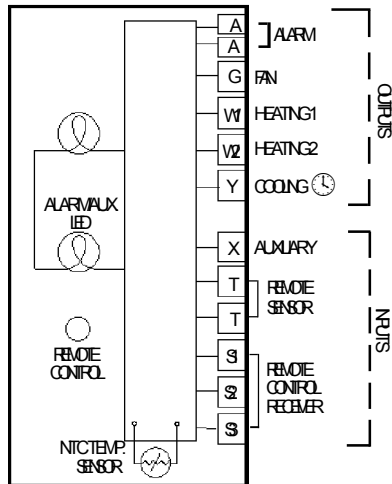
Operating Voltage:	24 vac (-15%, +10%, 50-60 Hz)
Temperature Range:	50°F - 90°F (10°C - 32°C)
Temperature Differential:	
Heating:	approximately ±0.8°F (.4°C)
Cooling:	approximately ±0.8°F (.4°C)
Between stages:	2° F (1.1° C)
Dead Band:	4° F (2.2° C)
Sensor System:	Negative Temperature Coefficient (NTC)
Standard:	internal
Optional:	remote temperature
Optional:	return air temperature
Compressor Protection:	switched 4 minute time delay
Switches:	
Slide:	SYSTEM: ON/OFF
Slide:	MODE: COOL/AUTO/HEAT
Slide:	FAN: AUTO/ON
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:	Thermostat: 5 ⁴³ / ₆₄ x 3 ¹ / ₄ x 1 ³ / ₁₆ Inches (144.1 x 82.6 x 30.2 mm)
	Remote: 6 ¹ / ₂ x 1 ²³ / ₆₄ x 5 ⁵ / ₈ Inches (165.1 x 34.5 x 15.9 mm)
Remote Control Transmitter (optional):	7-button infra-red
Battery:	(2) AAA
Range:	36' (10 meters)
Remote Control Receiver (optional):	infra-red
Range:	36' (10 meters)

MODEL NUMBERS AND DESCRIPTIONS FOR VARIOUS APPLICATIONS



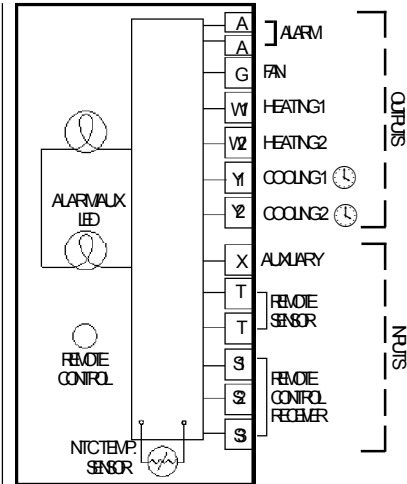
Model Number: TF211120
Description: 1 stage heat, 1 stage cool

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)



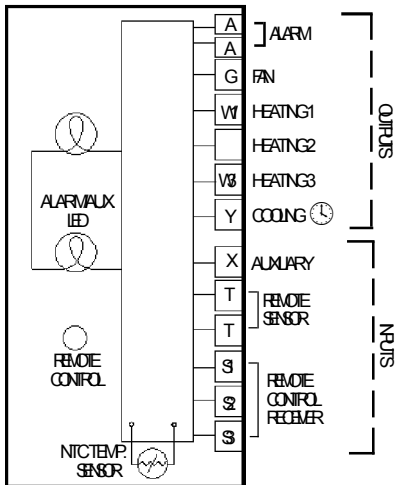
Model Number: TF212120
Description: 2 stage heat, 1 stage cool

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)



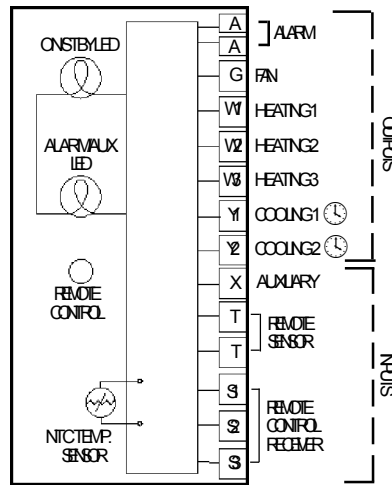
Model Number: TF212220
Description: 2 stage heat, 2 stage cool

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: TF213120
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: TF213220
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)

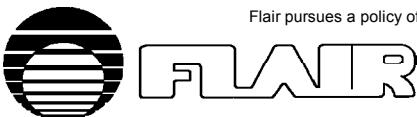
ACCESSORIES

- Remote Temperature Sensor TX101001
 - Return Air Temperature Sensor TX101011
 - Remote Control Transmitter TX502001
(Compatible with internal and external remote control receivers.)
 - Remote Control Receiver (external) TX503001
(Up to 5 receivers may be daisy chained to thermostat and placed at remote locations—relays signal from remote control transmitter to thermostat.)
-  Indicates this output is protected by a switched 4 minute time delay

REFERENCES

For More Information On:	See:
Non-Remote version	TE21 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 section
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.



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