

ELECTRONIC PROGRAMMABLE

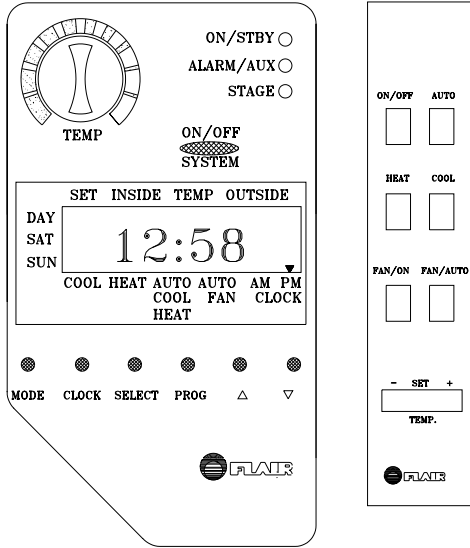
THERMOSTAT series TQ21

For central (main) or zoned control of heating and cooling systems. Available in single and multiple stage versions. Optional remote control capability.

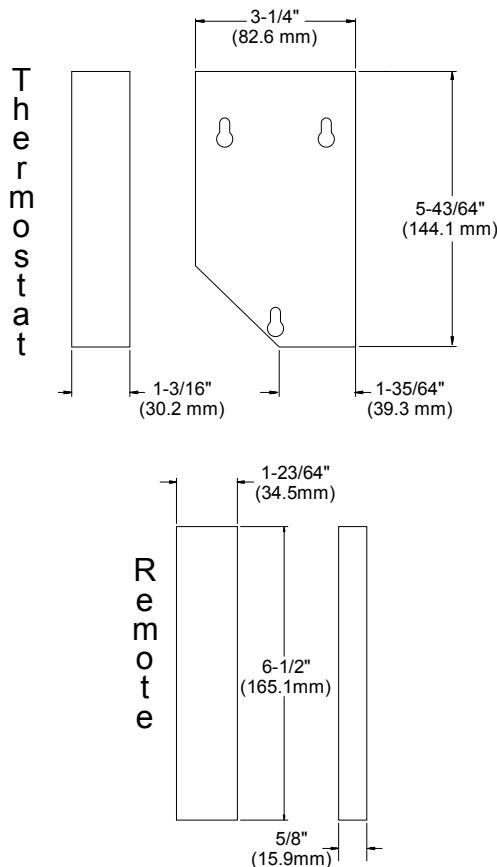
BENEFITS & SPECIAL FEATURES

Same benefits as the TP21 with the addition of remote control:

- 4 daily programs for M-F, Sat. and Sun.
- Digital 12/24 hour real time clock.
- 4 minute automatic time delay for compressor protection (may be bypassed).
- Ten year lithium battery for back up during power outages.
- Temperature display—set point, inside and outside air in F° or C°.
- System status indicators.
- Learned response feature adjusts for changing climate.
- Manual on/off override.
- Temporary override with automatic resumption of program.
- Electronic program and temperature limiting and locking.
- Low and high limit temperature alarms can activate a dry contact to switch an external control.
- Remote temperature sensor (optional).
- Auto-changeover (heating/cooling).
- Continuous (on) or intermittent (auto) fan.
- Infra-red remote control internal receiver (standard).
- Infra-red remote control transmitter (optional).
- Infra-red remote control external receiver (optional)



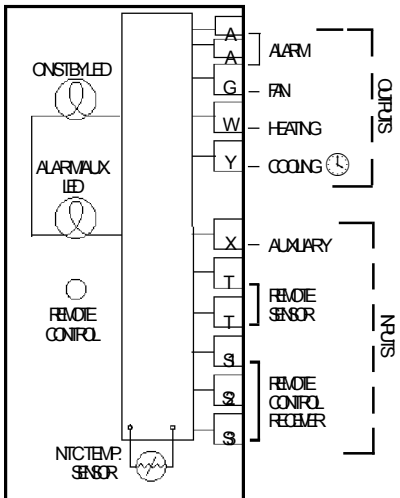
DIMENSIONS



SPECIFICATIONS

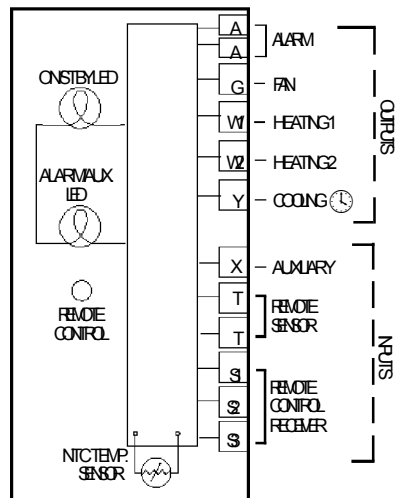
Operating Voltage:	24 vac (-15%, +10%, 50-60 Hz)
Temperature Range:	50°F - 90°F (10°C - 32°C)
Temperature Differential:	
Heating:	approximately ±0.8°F (.4° C)
Cooling:	approximately ±0.8°F (.4° C)
Between Stages:	2° F (.8° C)
Dead Band:	4°F (2.2° C)
Sensor System:	Negative Temperature Coefficient (NTC)
Standard:	internal
Optional:	remote temperature
Optional:	return air temperature
Optional:	outside air temperature
Compressor Protection:	switched 4 minute time delay
Switches:	
Push-button:	MODE/CLOCK/SELECT/PROG/UP/DOWN
Push-button:	SYSTEM: ON/OFF
Rotating:	set TEMPerature
Indicator LED's:	ON (Green) / STBY (Flashing Green)
	ALARM (Red) / AUX (Flashing Red)
Staging (orange):	Stage One (Off); Stage Two (On); Stage Three (Flashing)
Display:	LCD, 4 character, .5" (1.27 cm) height.
Security:	Electronic temperature limiting and locking.
	Program 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



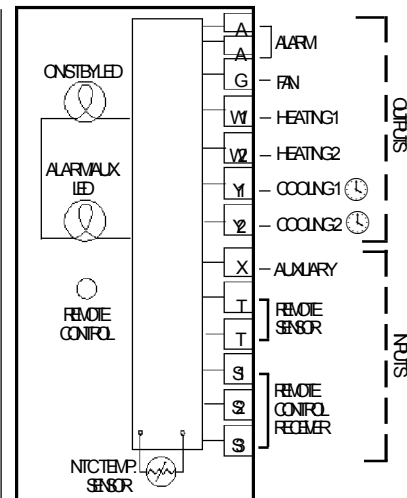
Model Number: TQ211120
Description: 1 stage heat, 1 stage cool,

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)



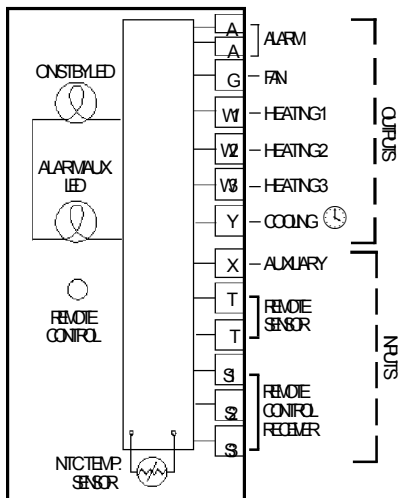
Model Number: TQ212120
Description: 2 stage heat, 1 stage cool,

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)



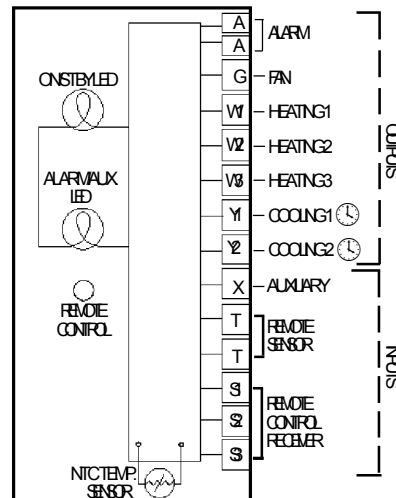
Model Number: TQ212220
Description: 2 stage heat, 2 stage cool,

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: TQ213120
Description: 3 stage heat, 1 stage cool,

Switching Current at 24 VAC:
Cooling: 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: TQ213220
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)

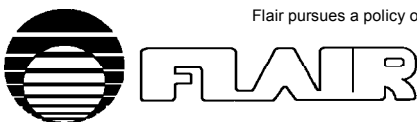
ACCESSORIES

Remote Temperature Sensor	TX101001
Return Air Temperature Sensor	TX101011
Outside Air Temperature Sensor	TX101021
Remote Control Transmitter	TX502001
(Compatible with internal and external remote control receivers.)	
Remote Control Receiver (external)	TX503001
(Up to 5 receivers may daisy chain to thermostat and placed at remote locations—relays signal from remote control transmitter to thermostat.)	
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

REFERENCES

For More Information On:	See:
Non-Remote version	TP21 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

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



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TQ21P2