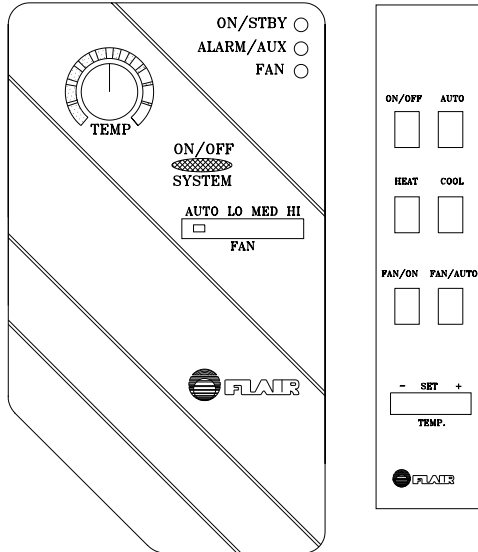**ELECTRONIC**

THERMOSTAT *series TF13*

For control of fan coils and Packaged Terminal Air Conditioners (PTACs). Available in heating only or cooling only.
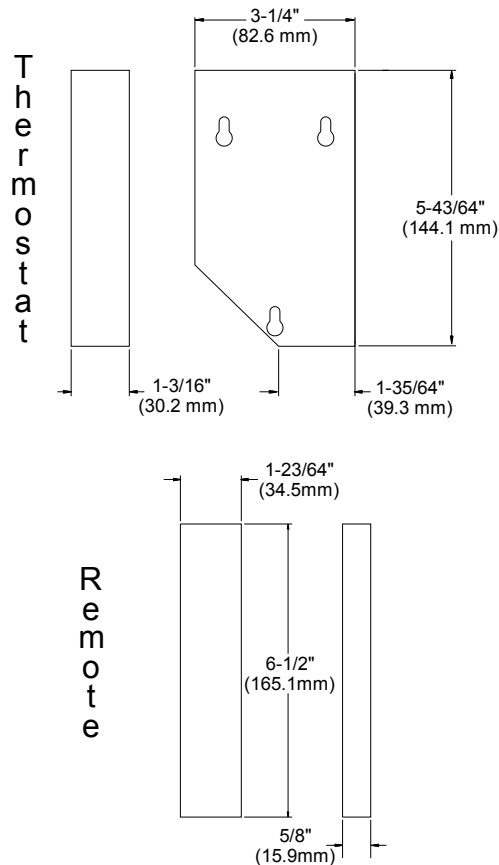
BENEFITS & SPECIAL FEATURES

Same benefits as the TE13 with the addition of remote control:

- 4 minute time delay for compressor protection (may be bypassed).
- Remote temperature sensor (optional).
- Return air temperature sensor (optional).
- 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.
- Three speed automatic fan selection control with manual override.
- System status indicators.
- Models to accomodate 24/100/120/208/230/277 VAC.
- Infra-red remote control internal receiver (standard).
- Infra-red remote control transmitter (optional).
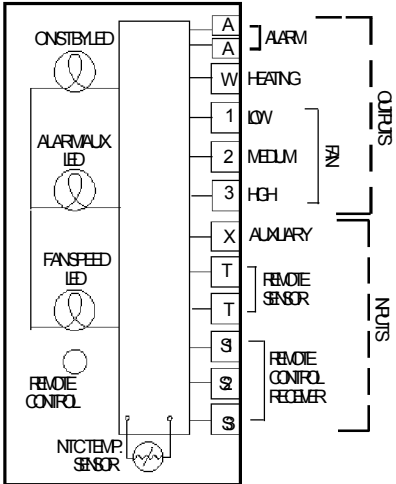- Infra-red remote control external receiver (optional).

SPECIFICATIONS

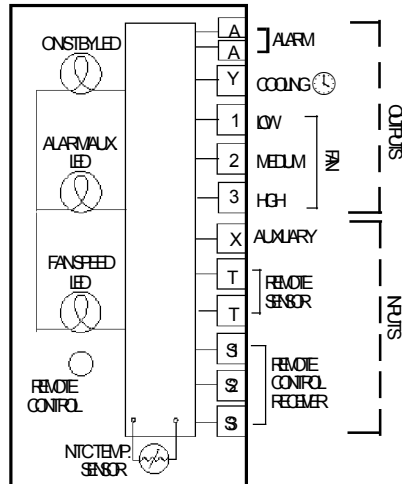|	
Operating Voltage:	24/100/120/208/230/277 vac (-15%, +10 %, 50-60 Hz)
Switching Current at rated voltage:	
Cooling:	minimum 10 Amps
Heating:	minimum 10 Amps
Fan:	minimum 10 Amps
Alarm:	minimum 1 Amp
Auxiliary:	minimum 1 Amp
Temperature Range:	50°F - 90°F (10°C - 32°C)
Temperature Differential:	
Heating:	approximately ±0.8°F (.4°C)
Cooling:	approximately ±0.8°F (.4°C)
Fan (in auto mode):	
Low:	< 2° F (1.1° C)
Med:	2 - 4° F (1.1°-2.2° C)
High:	> 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:	
Push-button:	SYSTEM: ON/OFF
Slide:	FAN:AUTO/LOW/MED/HIGH
Rotating:	set TEMPerature
Indicator LED's:	ON (Steady Green) / STBY (Flashing Green)
	ALARM (Flashing Red) / AUX (Steady Red)
FAN: Low::	(Slow Flashing Yellow)
Med:	(Flashing Yellow)
High:	(Fast Flashing Yellow)
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 $^5/_8$ 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)

DIMENSIONS

Model Number: TF131020;   24 VAC
TF131040;   120 VAC
TF131050;   208 VAC
TF131070;   230 VAC
TF131090;   277 VAC

Description: 1 stage heat
with remote control

Weight: .4 lbs. (880 g)

Model Number: TF130120;   24 VAC
TF130140;   120 VAC
TF130150;   208 VAC
TF130170;   230 VAC
TF130190;   277 VAC

Description: 1 stage cool
with remote control

Weight: .4 lbs. (880 g)

ACCESSORIES

Remote Temperature Sensor   TX101001

Return Air Temperature Sensor   TX101011

Backplates may be used to cover large holes in
walls or mount to utility boxes:
horizontal   TX201001
vertical   TX202001
square   TX203001

Auto changeover between heating and cooling can
be accomplished when used with Heating/Cooling
Changeover Switch:
For $1/2$" to $1\frac{1}{4}$" pipe   AC000100
For $1\frac{1}{4}$" to 3" pipe   AC000101

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.)

APPLICATIONS

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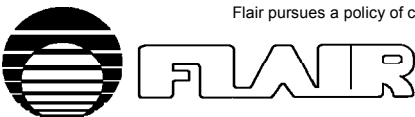- Industrial.
- Institutional. (Hospitals, Hotels, Motels)

REFERENCES

For More Information On:	See:
Non-Remote Model	TE13 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

🕒 Indicates this output is protected by a
switched 4 minute time delay.

UL approved   CSA approved

FLAIR INTERNATIONAL CORPORATION

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TF13P2