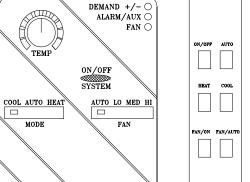


ELECTRONIC MODULATING

THERMOSTAT series TF83

For modulating control of heating and cooling fan coil systems.



₽₽₩₽

BENEFITS & SPECIAL FEATURES

Same benefits as the TE83 with the addition of the remote control:

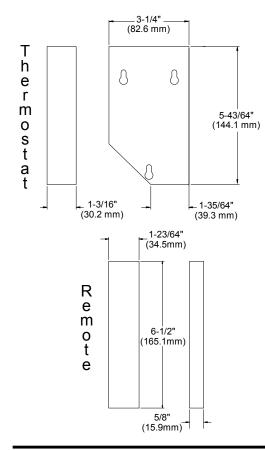
- Adjustable dead band prevents overlapping between heating and cooling modes.
- Floating point control for closer tolerance.
- Manual on/off override.
- Electronic temperature limiting and locking.
- Low and high limit temperature alarms can activate a dry contact to switch an external control.
- Automatic heating/cooling changeover.
- Direct or reverse acting.
- System status indicators.
- Three speed automatic fan control with manual override.
- Remote temperature sensor (optional).
- Return air temperature sensor (optional).
- Infra-red remote control internal receiver (standard).
- Infra-red remote control transmitter (optional).

Thermostat:

Remote:

■ Infra-red remote control external receiver (optional).

DIMENSIONS



SPECIFICATIONS

Operating Voltage: 24 vac (-15%, +10%, 50-60 Hz) 50° F - 90° F (10° C - 32° C) Temperature Range: 2° F - 10° F (1.1° C - 5.5° C) Proportional Band: 0-2° F (0-1.1° C) Bandwidth: 1° - 4° F (.6° - 2.2° C) Dead Band: Sensor System: Negative Temperature Coefficient (NTC) Standard: internal Optional: remote temperature sensor Optional: return air temperature sensor Switches (Optional): Push-button: system: ON/OFF MODE: HEAT/AUTO/COOL Slide: Slide: FAN: AUTO/LOW/MED/HIGH Rotating: set TEMPerature Switched Outputs: Triac/relav Indicator LED's: ALARM (Flashing Red) / AUX (Steady Red) FAN: Low (Slow Flashing Yellow) (Medium Flashing Yellow) Med (Fast Flashing Yellow) High Modulating circuit: DEMAND + (Steady Blue) Set Point Off **DEMAND** (Flashing Blue)

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Battery:

Range:

Range:

Remote Control Transmitter (optional):

Remote Control Receiver (optional):

Security:

Dimensions:

7-button infra-red

36' (10 meters)

36' (10 meters)

(2) AAA

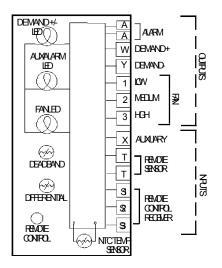
infra-red

Electronic temperature limiting and locking

 $5^{43}_{64} \times 3^{1/4} \times 1^{3/16}$ Inches (144.1 x 82.6 x 30.2 mm)

61/2 x 123/64 x 5/8 Inches (165.1 x 34.5 x 15.9 mm)

MODEL NUMBERS AND DESCRIPTIONS FOR VARIOUS APPLICATIONS



Model Number: TF831120 Description: Modulating

1 stage heat, 1 stage cool with 3-speed fan and Remote Control

Switching Current at 24 VAC:

Cooling: 1 Amp Heating: 1 Amp Fan: 1 Amp Alarm: 1 Amp 1 Amp Auxiliary: 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 locationsrelays signal from remote control transmitter to thermostat.)

Backplates may be used to cover large holes in

walls or mount to utility boxes:

horizontal TX201001 vertical TX202001 square TX203001

Transformers:

TR140100 40 VA 20 VA TR120100

Relay Transformers:

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

APPLICATIONS

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

REFERENCES

For More Information On: See:

Non-Remote version TF83 data sheet

Wiring, jumper,

potentiometer settings

Warranty & Pricing

Instruction sheet and applications

Other thermostats This section

Zone Actuators Star Actuator section

Zone Valves Star Valve section

Wiring Panels

Pricing & Terms

Control Panels section

section



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