

ELECTRONIC PROPORTIONAL

THERMOSTAT *series TE91*
series TF91 with Remote Control

For proportional control of central (main) or zoned heating and cooling systems.

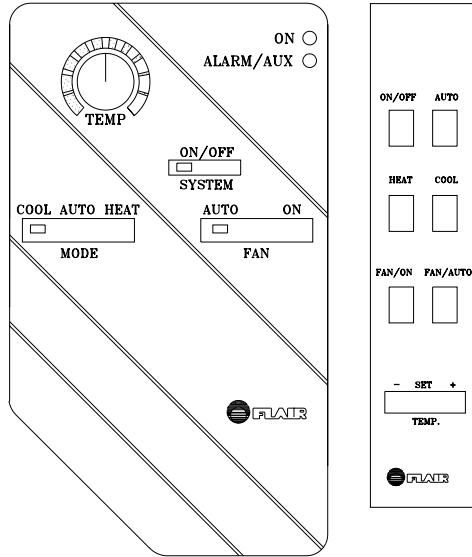
BENEFITS & SPECIAL FEATURES

TE91 and TF91 series:

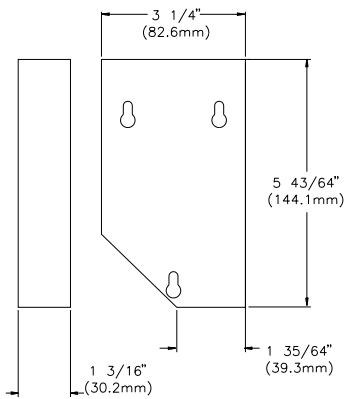
- Proportional output provides fast and accurate positioning for zone actuators and valves.
- No batteries required.
- Proportional integral control eliminates overshoot and droop.
- Adjustable dead band prevents overlapping between heating and cooling modes.
- Manual on/off override.
- Electronic temperature limiting and locking.
- Automatic heating/cooling changeover.
- Continuous (on) or intermittent (auto) fan.
- Direct or reverse acting outputs.
- System status indicators.
- Adjustable differential band.

TF91 series:

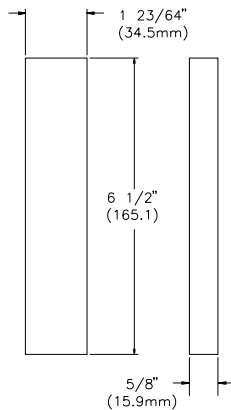
- Infra-red remote control internal receiver (standard).
- Infra-red remote control transmitter (optional).
- Infra-red remote control external receiver (optional).



DIMENSIONS



Thermostat

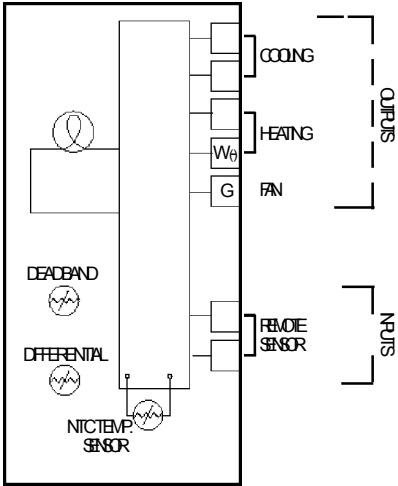


Remote

SPECIFICATIONS

Operating Voltage:	24 vac (-15%, +10%, 50-60 Hz)
Output:	0-10 VDC or 4-20mA
Temperature Range:	50° F - 90° F (10° C - 32° C)
Temperature Differential:	
Heating:	0-2° C approximately ±0.8°F (.4° C)
Cooling:	0-2° C approximately ±0.8°F (.4° C)
Bandwidth:	0-2° F (0-1.1° C)
Dead Band:	Adjustable 0 - 4° F (2.2° C) to set point
Sensor System:	Negative Temperature Coefficient (NTC)
Standard:	internal
Optional:	remote temperature sensor
Optional:	return air temperature sensor
Switches:	
Push-button:	ON/OFF
Rotating:	SET TEMPERATURE
Slide:	MODE: HEAT/AUTO/COOL
Slide:	FAN: AUTO/ON
Indicator LED's:	ON (Green)
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)

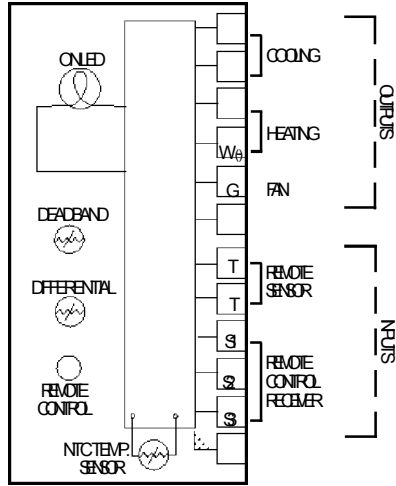
MODEL NUMBERS AND DESCRIPTIONS FOR VARIOUS APPLICATIONS



Model Number: TE911120
Description: 1 stage heat, 1 stage cool

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

*Warmer/cooler scale is standard



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ACCESSORIES

Remote Temperature Sensor	TX101001
Return Air Temperature Sensor	TX101011
Remote Control Transmitter (Compatible with internal and external remote control receivers.)	TX502001
Remote Control Receiver (external) (May be located in other rooms and wired to thermostat. Receives signal from transmitter.)	TX503001
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

APPLICATIONS

- Central (main) heating or cooling.
- 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:

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
Suggested pricing	Price section
Warranty	Warranty section



FLAIR

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

FLAIR INTERNATIONAL CORPORATION

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TE91P2