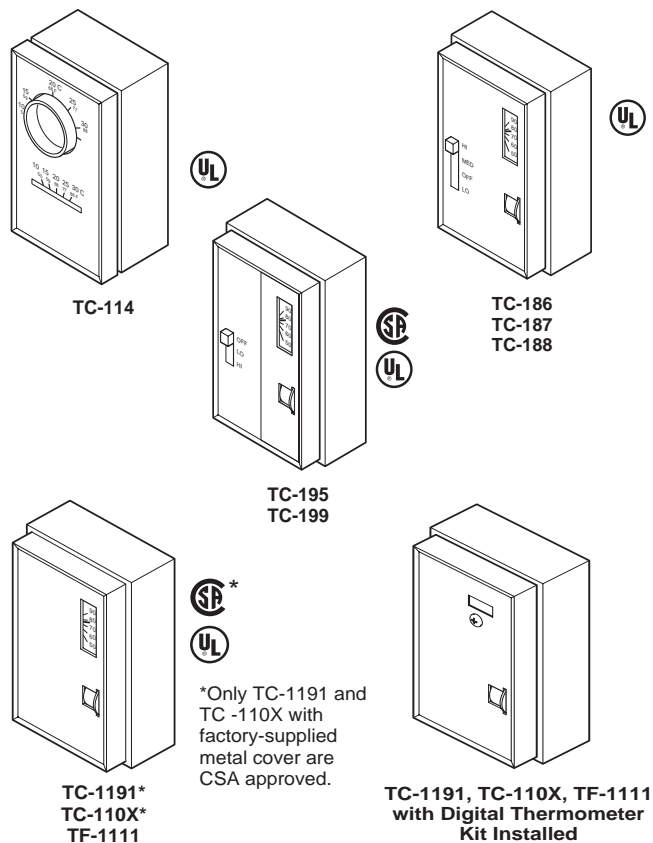


## Two-Position Electric Duplex Room Thermostats

These thermostats provide on-off control of heating/cooling systems.

Features:

- Separate units for °C and °F.
- All units except TC-114.
  - Parallel heat and/or cooling anticipation capability.
  - Dial stop pins to limit range.
  - Lock cover screw/sets available.
  - Agency approval.
  - Switch bases AT-602 and AT-603 available for custom applications.
- TC-18X and TC-19X.
  - Fan switch option standard.



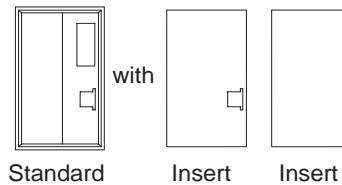
Model Chart							
Model No.	Application	Setpoint Dial Range	Differential	Electrical Switch Refer to Electrical Ratings Table	Connections	Cover	Dimensions In. (mm) H x W x D
TC-114	On/off control of unit heaters or motors.	50 to 86°F (10 to 30°C) Dual marked	Heat, 2°F (1.1°C) Cool, 3°F (1.7°C)	SPDT snap action	Color-coded 6 in. leads	Beige plastic with metal brushed bronze insert	4-1/2 x 2-3/4 x 1-1/8 (114 x 70 x 29)
TC-186 TC-187 TC-188 TC-187-116 TC-188-116	Sequenced on-off control of line voltage fan coil or zone valves on heating and cooling systems.	55 to 85 °F  13 to 29°C	Heat, 2°F Neutral, 2°F Cool, 2°F  Heat, 1.1°C Neutral, 1.1°C Cool, 1.1°C	SPDT zero energy band (neutral center)	Coded screw terminals and color-coded 6 in. leads		Beige metal with metal brushed bronze insert
TC-195	On-off control of line voltage fan coil or zone valves on heating and cooling systems.	55 to 85 °F (13 to 29°C)	1.5°F (0.8°C)  Heat, 2° (1.1°C) Cool, 2° (1.1°C) Neutral, 2° (1.1°C)	SPDT snap action  SPDT zero energy band (neutral center)			

## Model Chart (Continued)

Model No.	Application	Setpoint Dial Range	Differential	Electrical Switch Refer to Electrical Ratings Table	Connections	Cover	Dimensions In. (mm) H x W x D
TC-1101	Low or line voltage on-off control of fan coils, fans, motor starters, contactors, two-position electric actuators.	55 to 85°F	2°F	SPDT snap action	Color-coded 6 in. leads	Beige plastic as standard	4-3/8 x 2-7/8 x 1-5/8 (111 x 73 x 41)
TC-1101-116		13 to 29°C	1°C				
TC-1101-500 <sup>a</sup>		55 to 85°F	2°F				
TC-1102		45 to 75°F	2°F				
TC-1102-116		7 to 23°C	1°C				
TC-1102-500 <sup>a</sup>		45 to 75°F	2°F				
TC-1102-602 <sup>b</sup>							
TC-1103		75 to 105°F					
TC-1103-116		21 to 39°C	1°C				
TC-1103-500 <sup>a</sup>	75 to 105°F	2°F					
TC-1191	Low or line voltage on-off control of heat/cool systems such as 3 or 4 pipe unitary.	55 to 85°F	Heat, 2° (1.1°C) Cool, 2° (1.1°C) Neutral, 2° (1.1°C)	SPDT snap action (neutral center)			
TC-1191-116		13 to 29°C					
TC-1191-500 <sup>a</sup>		55 to 85°F					
TC-1191-602 <sup>b</sup>							
TF-1111	Floating control of one MF-1233 series actuator.	55 to 85°F	4°F	SPDT floating off 0.160 FLA @ 24 Vac			
TF-1111-116		13 to 29°C	2°C				

<sup>a</sup> Heat anticipation model.

<sup>b</sup> Night depression model.



**Figure 1 Standard Covers.**



**Figure 2 Options (for quantities of 24 or more each number)  
Add dash number (-XXX) suffix to base [part number of desired option].  
For metal covers, specify TC2-11XX. No cover option for TC-1XX.**

# TC-1XX Series, TC-11XX Series, TF-1111 Series

## Specifications

<b>Anticipators</b>	Thermostats mounted on concrete walls or surfaces that change temperature slowly, have reduced response to changes in air temperature. Response is further delayed by guards that restrict air flow to the thermostat. Anticipators are required (parallel for cooling, series or parallel for heating) for any of these conditions and in spaces intended for continuous occupancy; i.e., hotel guest rooms and offices.
<b>Anticipation</b>	
<b>TC-18X Series</b>	Cooling is fixed.
<b>TF-1111 Series</b>	Heating and cooling; factory-installed resistors are sized for 0.16 FLA @ 24 Vac maximum.
<b>Fan switch</b>	
<b>TC-18X Series</b>	Marking: Low-Off <sup>a</sup> -Med-High.
<b>TC-19X Series</b>	Marking: Off-Lo-Hi <sup>a</sup> . Construction: Integral two-pole three-position.
<b>Sensing element</b>	Bimetal.
<b>Mounting</b>	Flush or 2 x 4 wall box.
<b>Locations</b>	NEMA Type 1.

<sup>a</sup> Off position de-energizes thermostat and fan.

## Electrical Ratings.

Model No.	Fan Switch			Thermostat Contacts							
	Volts (AC)	Full Load Amps	Locked Amps	Volts (AC)	Full Load Amps	Locked Rotor Amps	Pilot Duty (VA)	Non-Inductive Amps			
TC-114	—	—	—	120/240	9.8/8	58.8/48	—	25/25			
TC-114-770				24	4.4	26	40	—			
TC-186	120	6	36	24	3	18	125				
TC-187				120					3	18	18
TC-187-116											
TC-187-770	120/240	6/3	36/18	120/240	1.0/0.5	6/3	40				
TC-188									120/240	6/3	36/18
TC-188-116	120/240	6/3	36/18	120/240	3	18	125				
TC-188-770									120/240	6/3	36/18
TC-195	120/240	6/3	36/18	120/240	3	18	125				
TC-195-770									120/240	6/3	36/18
TC-199	120/240	6/3	36/18	120/240	3	18	125				
TC-199-770								120/240	6/3	36/18	120/240
TC-1101	—	—	—	24/120/240	Heat, 4.4/4.4/2.2 Cool, 3.0/3.0/1.5	Heat 26.4/26.4/13.2 Cool, 18/18/9	40/210/210				
TC-1101-116											
TC-1101-500											
TC-1101-700											
TC-1102											
TC-1102-116											
TC-1102-500											
TC-1102-602											
TC-1102-770											
TC-1103											
TC-1103-116											
TC-1103-500											
TC-1103-770											

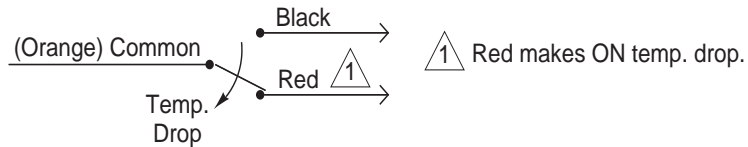
## Electrical Ratings (Continued).

Model No.	Fan Switch			Thermostat Contacts				
	Volts (AC)	Full Load Amps	Locked Amps	Volts (AC)	Full Load Amps	Locked Rotor Amps	Pilot Duty (VA)	Non-Inductive Amps
TC-1191	—	—	—	24/120/240	Heat, 4.4/4.4/2.2 Cool, 3.0/3.0/1.5	Heat 26.4/26.4/13.2 Cool, 18/18/9	40/210/210	
TC-1191-116								
TC-1191-500								
TC-1191-602								
TC-1191-770								
TF-1111	—	—	—	24	0.16 at 24 Vac	—	—	
TF-1111-116								
TF-1111-770								

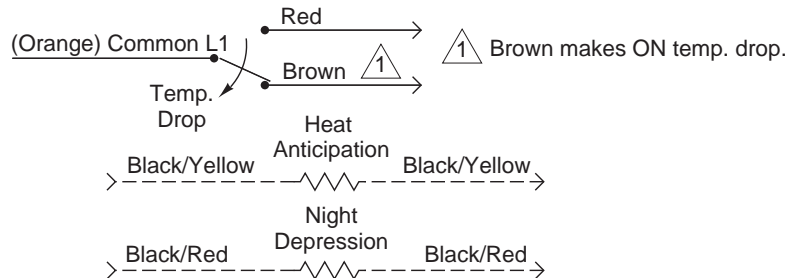
## Accessories

Model No.	Description
AT-61 Series	Brushed bronze cover plates.
AT-101	Lock cover kit.
AT-104	Dial stop pins (pins included with each unit).
AT-504	Plaster hole cover kit (small).
AT-505	Surface mounting base.
AT-546	Auxiliary mounting plate.
AT-602	Selector switch sub-base DP4T.
AT-603	Selector switch sub-base one DP4T, one DPDT.
AT-1103	Wire guard.
AT-1104	Cast aluminum guard.
AT-1105	Plastic guard.
AT-1155	Plastic guard.
AT-1165	Plastic guard.
TOOL-11	Calibration wrench.
TOOL-13	Contact burnishing tool.

## Typical Applications

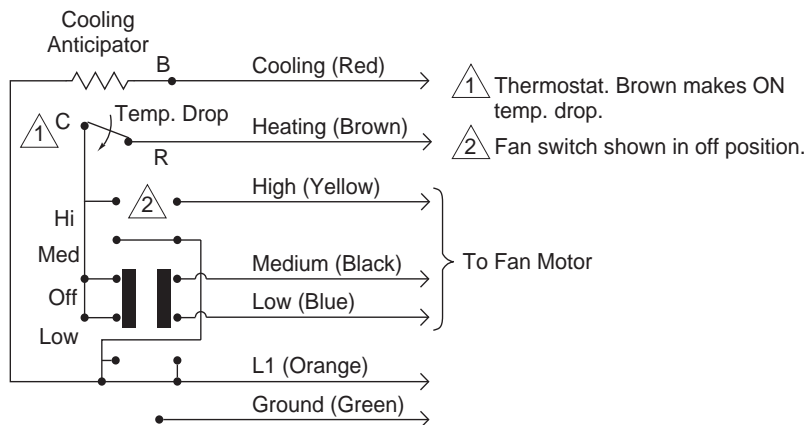


**Figure 3 TC-114 Switch Action and Lead Identification.**

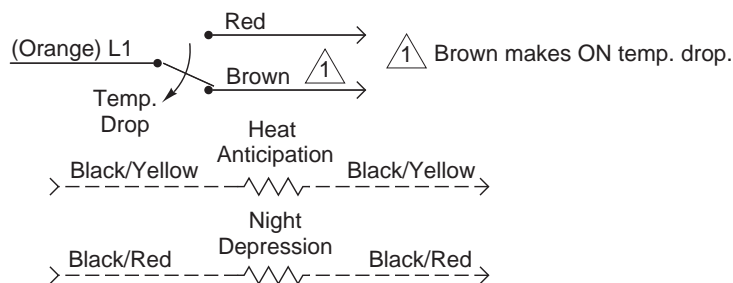


**Figure 4 TC-110X Series Switch Action and Lead Identification.**

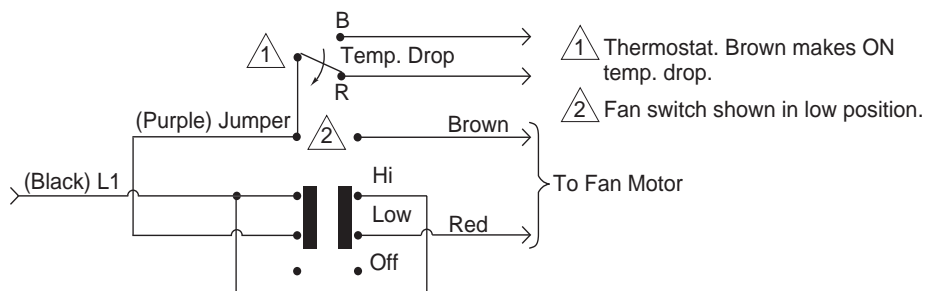
# TC-1XX Series, TC-11XX Series, TF-1111 Series



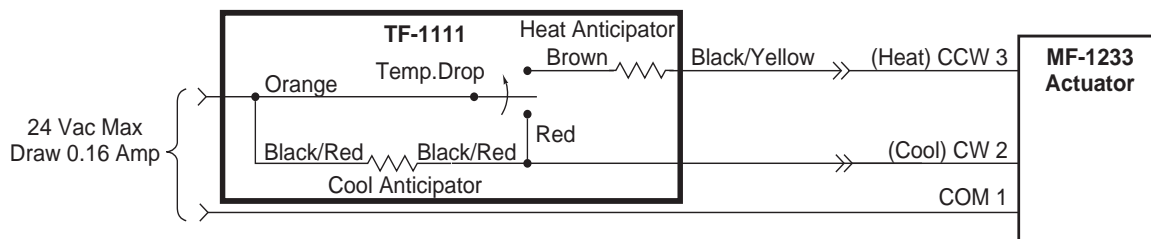
**Figure 5 TC-18X Series Switch Action and Terminal Identification.**



**Figure 6 TC-1191 Switch Action and Lead Identification.**



**Figure 7 TC-19X Series Switch Action and Terminal/Lead Identification.**



**Figure 8 TF-1111 Switch Action and Typical Wiring.**