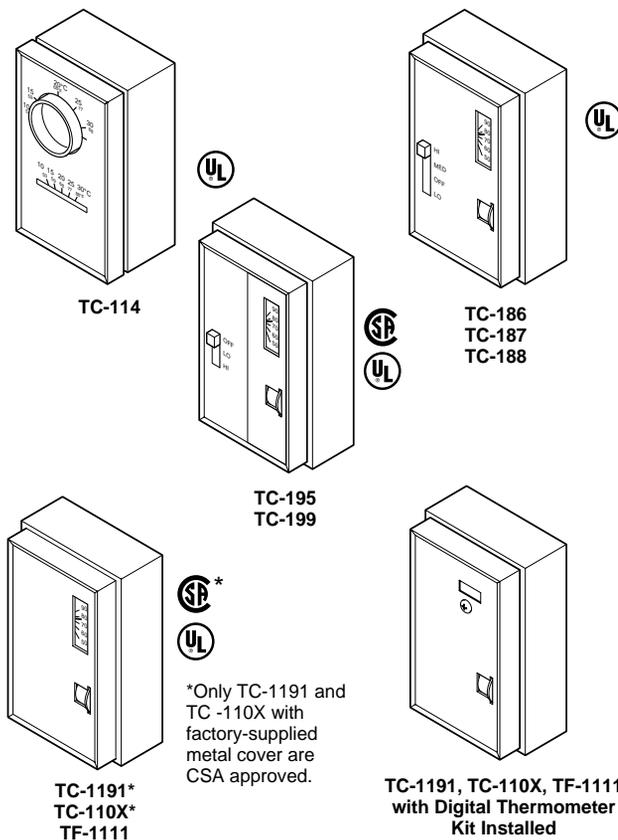


Two-Position Electric Duplex Room Thermostats

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.



*Only TC-1191 and TC-110X with factory-supplied metal cover are CSA approved.

Model Chart

Model No.	Logo	Application	Setpoint Dial Range	Differential	Electrical Switch Refer to Electrical Ratings Table	Connections	Cover	Dimensions In. (mm) H x W x D
TC-114	Barber-Colman	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-114-770	Robertshaw							
TC-186	Barber-Colman	Sequenced on-off control of line voltage fan coil or zone valves on heating and cooling systems.	55 to 85 °F	Heat, 2°F Neutral, 2°F Cool, 2°F	SPDT zero energy band (neutral center)	Coded screw terminals and color-coded 6 in. leads	Beige metal with metal brushed bronze insert	4-3/8 x 2-3/4 x 1-5/8 (111 x 70 x 41)
TC-186-770	Robertshaw							
TC-187	Barber-Colman							
TC-187-770	Robertshaw							
TC-188	Barber-Colman							
TC-188-770	Robertshaw							
TC-187-116	Barber-Colman							
TC-188-116								
TC-195	Robertshaw	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)	SPDT snap action			
TC-195-770								
TC-199								
TC-199-770	Robertshaw			Heat, 2° (1.1°C) Cool, 2° (1.1°C) Neutral, 2° (1.1°C)	SPDT zero energy band (neutral center)			

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

Model Chart (Continued)

Model No.	Logo	Application	Setpoint Dial Range	Differential	Electrical Switch Refer to Electrical Ratings Table	Connections	Cover	Dimensions In. (mm) H x W x D
TC-1101	Barber-Colman	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 ^a	Robertshaw		55 to 85°F	2°F				
TC-1101-770			45 to 75°F	2°F				
TC-1102	Barber-Colman		45 to 75°F	2°F				
TC-1102-116			7 to 23°C	1°C				
TC-1102-500 ^a			45 to 75°F	2°F				
TC-1102-602 ^b								
TC-1102-770	Robertshaw		75 to 105°F	2°F				
TC-1103	Barber-Colman		21 to 39°C	1°C				
TC-1103-116			75 to 105°F	2°F				
TC-1103-500 ^a								
TC-1103-770	Robertshaw							
TC-1191	Barber-Colman	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 ^a			55 to 85°F					
TC-1191-602 ^b								
TC-1191-770	Robertshaw							
TF-1111	Barber-Colman	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				
TF-1111-770	Robertshaw		55 to 85°F	4°F				

- ^a Heat anticipation model.
^b Night depression model.

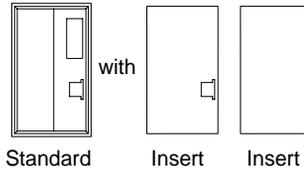
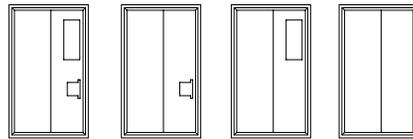


Figure 1 Standard Covers.



°F TC-1XXX-399 -400 -403†† -404††
°C TC-1XXX-398 -410 -413†† -414††

††5/64" Allen screw used to secure cover.

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.

Specifications

Anticipators

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.

Anticipation

TC-18X Series	Cooling is fixed.
TF-1111 Series	Heating and cooling; factory-installed resistors are sized for 0.16 FLA @ 24 Vac maximum.

Fan switch

TC-18X Series	Marking: Low-Off ^a -Med-High.
TC-19X Series	Marking: Off-Lo-Hi ^a . Construction: Integral two-pole three-position.

Sensing element

Bimetal.

Mounting

Flush or 2 x 4 wall box.

Locations

NEMA Type 1.

^a 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	—	—	—	120/240	9.8/8	58.8/48	—	25/25
TC-186	24	6	36	24	4.4	26	40	—
TC-186-770				24				
TC-187	120	6	36	120	4.4	26	125	
TC-187-116								
TC-187-770								
TC-188	240	3	18	240	3	18	125	
TC-188-116								
TC-188-770								
TC-195	120/240	6/3	36/18	120/240	3/1.5	18/9	40	
TC-195-770					3/1.5	18/9		
TC-199					1.0/0.5	6/3		
TC-199-770	1.0/0.5	6/3	36/18	120/240	1.0/0.5	6/3	40	
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-1101-770								
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								

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

Electrical Ratings (Continued).

Siebe 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

Siebe Model No.	Description
AT-61 Series	Brushed bronze cover plates.
AT-82 Series	Digital thermometer cover kit.
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-1100 Series	Thermostat guards.
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

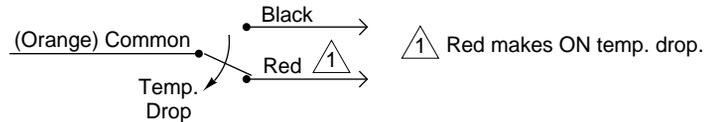


Figure 3 TC-114 Switch Action and Lead Identification.

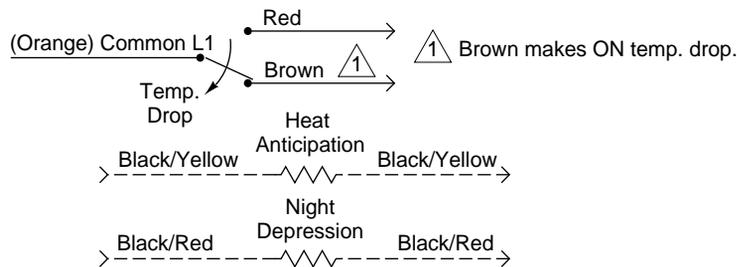


Figure 4 TC-110X Series Switch Action and Lead Identification.

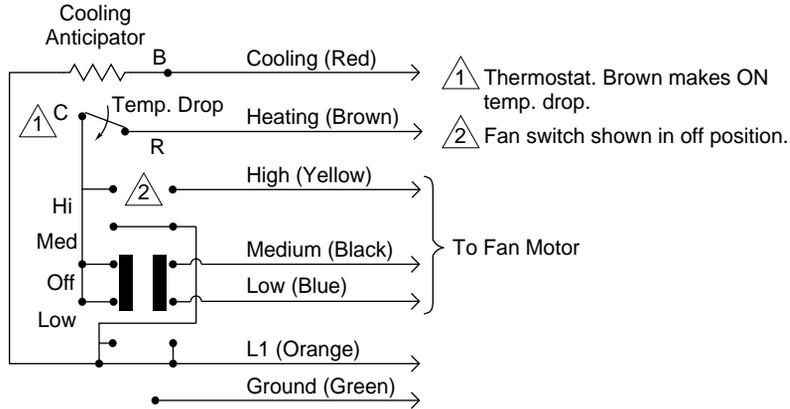


Figure 5 TC-18X Series Switch Action and Terminal Identification.

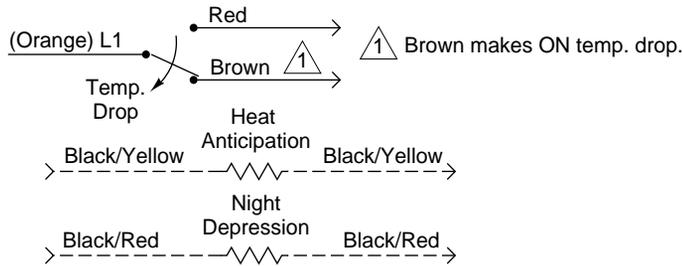


Figure 6 TC-1191 Switch Action and Lead Identification.

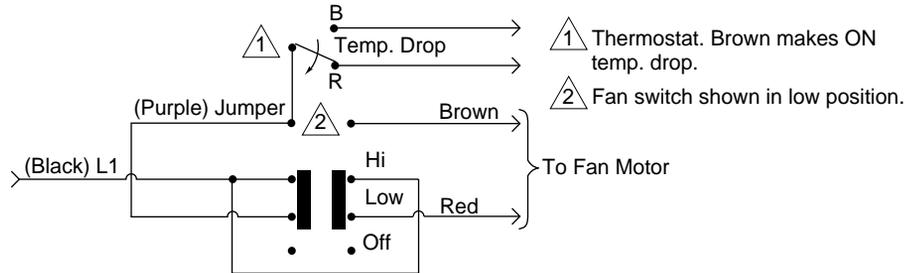


Figure 7 TC-19X Series Switch Action and Terminal/Lead Identification.

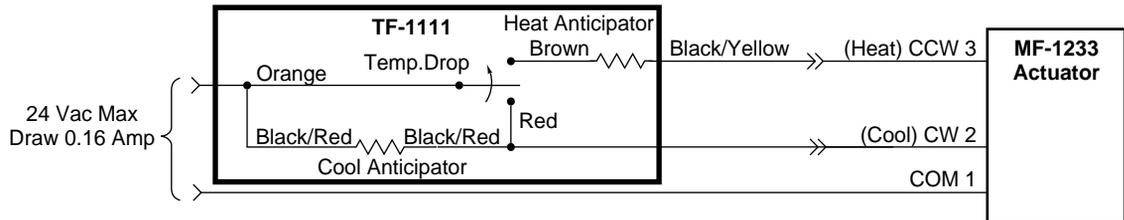


Figure 8 TF-1111 Switch Action and Typical Wiring.