Dear Customer,

We would like to congratulate you on choosing this high quality product. Combining function and design is a sensible and important consideration when selecting a room temperature thermostat. Our thermostats offer a very accurate and reliable operation complete with an interesting and eye-catching (as well as architecturally pleasing) design.

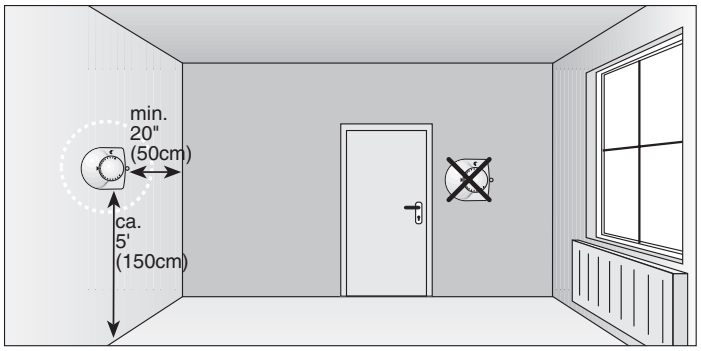
Innovations include:
Simple installation,
Easy operation,
Optimized assembly,
Excellent serviceability,
Top class comfort control with 1/4° temperature adjustment!

Our electronic room thermostats are specifically designed to work with hydronic heating systems (ie. for use with in-floor radiant heating, baseboards, radiators, and convection panel systems). When used in conjunction with our wax based zone drive operators, they maintain a precise setpoint with minimal fluctuation above and below the setpoint.

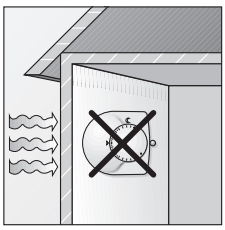
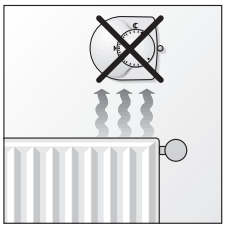
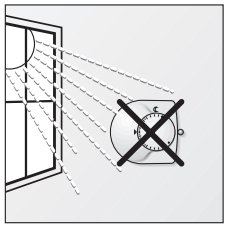
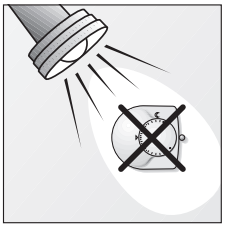
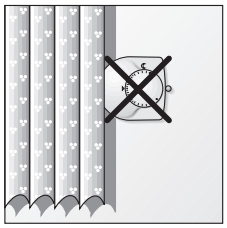
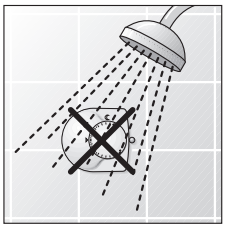


Standard Thermostat
Adjustable Set-back Thermostat
Digital Timer Thermostat

Thermostat Mounting Location Recommendations

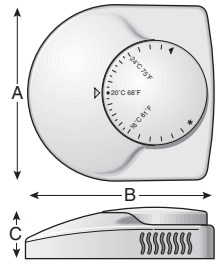


- No higher than 5' (150 cm) off the floor
- Minimum 20" (50 cm) from an outer wall
- Do not mount on an outer wall
- Away from door openings
- Away from any direct heat or light source
- Do not cover; allow complete air circulation
- Keep away from moisture

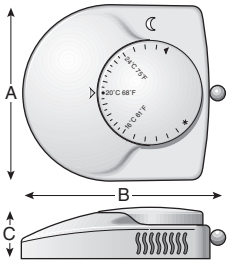







Dimensions in inches and mm

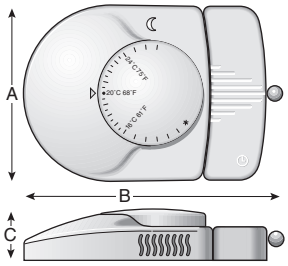
Standard



Adjustable Set-back



Digital Timer

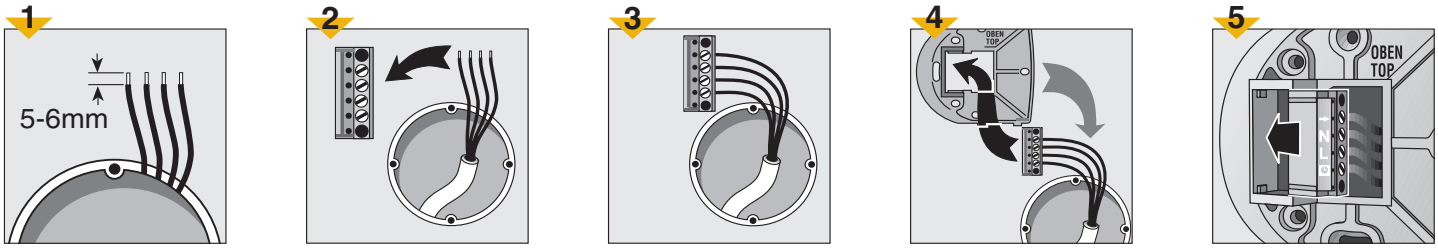


Dimension	A		B		C	
	in	mm	in	mm	in	mm
Standard	3 1/8	79	3 3/8	84	1 1/8	27
Setback 3 Position	3 1/8	79	3 3/4	93	1 1/8	27
Digital Timer	3 1/8	79	4 3/4	118	1 1/8	27

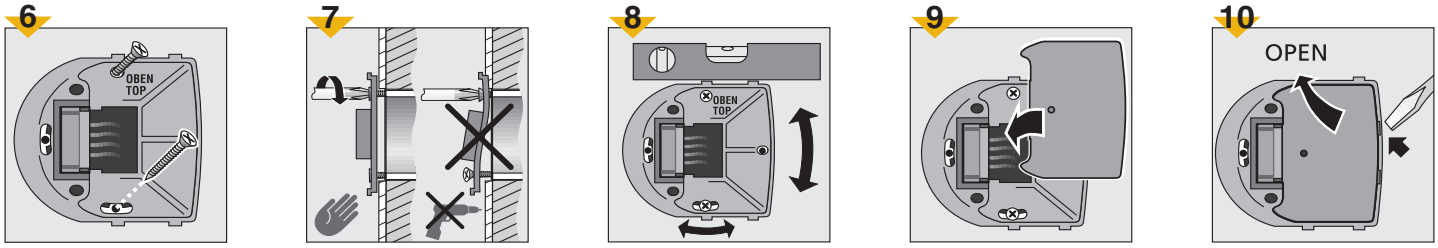
Installation and Assembly

Wall Plate and Thermostat Mounting

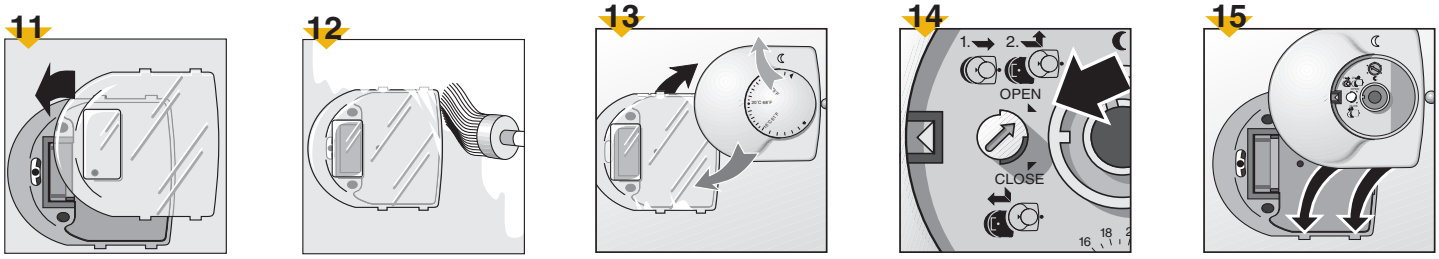
The electrical installation must be carried out by a certified technician in accordance with national, and local electrical & safety codes.



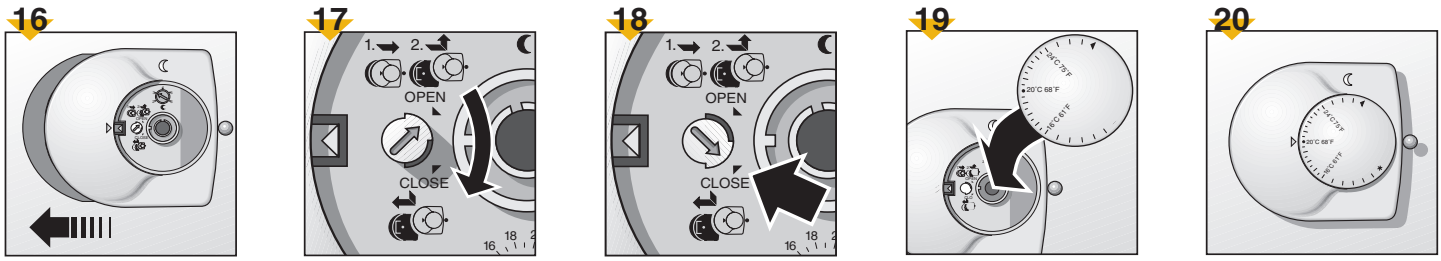
1-3. Ensure wire and plug can be recessed into the wall without pinching the thermostat wires.
4,5. Install plug into thermostat base with terminal connections facing to the right.



6. For mounting the base onto the wall, **only use countersunk screws**.
7. **Ensure screws are recessed flush into base** so that the locking plate (see diagram 9) can be installed properly; **do not over-tighten to where the base is deforming**; base must sit flush and straight on wall!
8. Use a level if necessary to ensure base is installed properly.
9. After base is installed, **install locking plate**. Do not install without locking plate. The plate's function is to keep the plug in position and locked as the thermostat is removed from the base.
10. For removal of the locking plate, use a small flat head screwdriver in notches as indicated.



11,12. If the thermostat base has been installed before all the drywall taping or painting has been completed, the clear plastic dust/paint protective cover can be installed.
13. For permanent mounting of thermostat, remove clear plastic dust/paint protective cover from base, and remove dial from thermostat to access lock screw underneath.
14. Ensure lock screw is in the open position.
15. Line up thermostat body to the base notches.



16. Slide the thermostat to the left until the thermostat pins are connected securely to the base plug.
(Note: Do not use force; if the thermostat is difficult to slide, check position of base, lock screw, locking plate, & wire plug to ensure everything lines up & is flush).
17,18. Lock thermostat to base by turning locking screw clockwise to the "close" position.
19,20. Reinstall thermostat dial.

Installation and Assembly

Electrical Installation

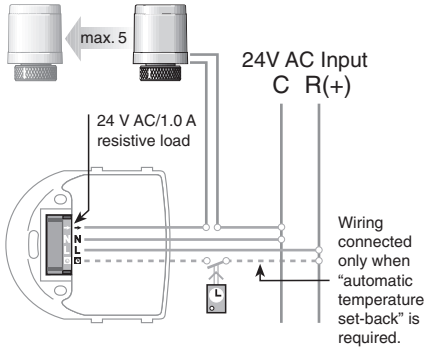
The electrical installation must be carried out by a certified technician in accordance with national, and local electrical & safety codes.

Meaning of Symbols:

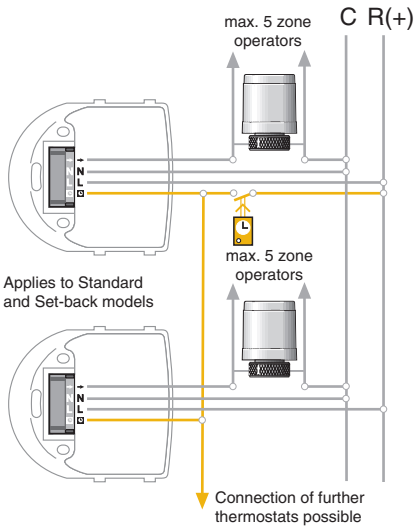
→	Switched output
C,N	Working Voltage C
R(+),L	Working Voltage R(+)
	Automatic temperature set-back

Connection symbols:

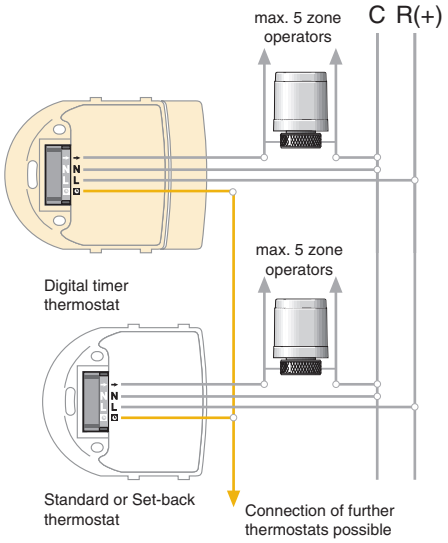
- 1 Channel timer switch
- Zone Operator
- Wall Plate



Circuit for set-back via central clock



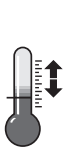
Circuit for set-back via digital timer thermostat

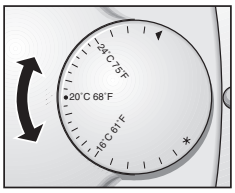


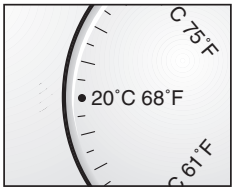
Operating Panel

Nominal Temperature Setpoint

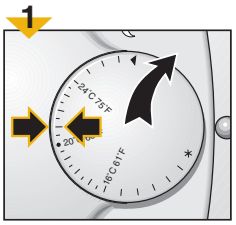
Temperature scale in ˚C/˚F.
Nominal temperature setpoint with "soft-click."

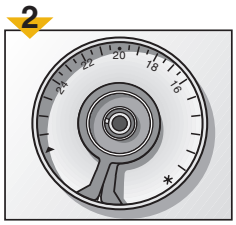




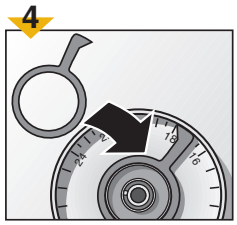


Limiting the Temperature Range

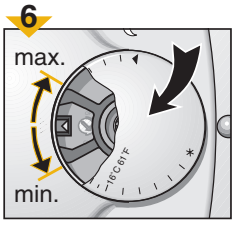








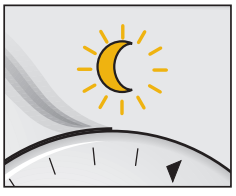




Conversion Chart	
16˚C	61˚F
18˚C	64.5˚F
20˚C	68˚F
22˚C	71.5˚F
24˚C	75˚F

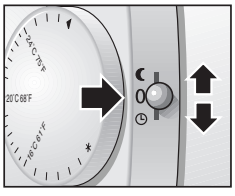
1. To lock and/or limit the temperature range on the thermostat dial, remove dial.
2. Underneath the dial there are two removable locking clips.
3. Place the first clip on the maximum temperature desired.
4. Place the second clip on the minimum temperature desired.
5. Locking clips can be positioned to provide as wide or narrow of a temperature range as desired. (Note: An almost complete lock with only a 0.25° temperature adjustment is possible if desired.)
6. Replace dial and confirm temperature range is set correctly.

Temperature Set-back Indicator



The moon is illuminated when the temperature set-back is in operation.

Selection Switch

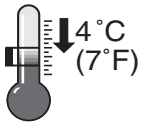


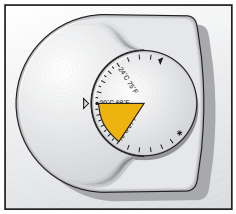
- ☾ Temperature set-back "ON" (continual permanent set-back)
- 0 Temperature set-back "OFF" (continual normal heating operation)
- ◷ Temperature set-back "AUTOMATIC" (as per timer)

Internal Adjustments

Temperature Set-back (Non-adjustable)

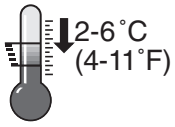
When a standard thermostat receives a set-back signal from a timer switch or a remote digital timer thermostat, the temperature set-back amounts to approx. 7.2˚F (4˚C) of the set point temperature.





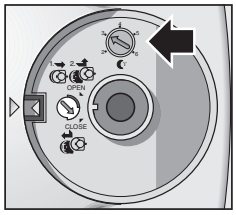
Temperature Set-back (Adjustable)

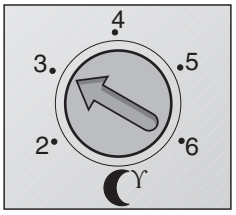




With the set-back thermostats (ie. the adjustable setback or digital timer thermostats) can be varied by 4-11˚F (2-6˚C) of the set point temperature.

(Note: Automatic temperature set-back is only possible with an external timer switch or a digital timer thermostat.)

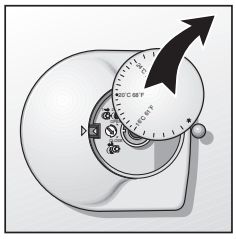


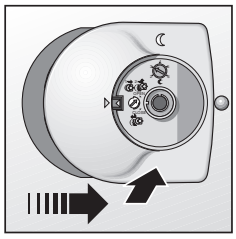


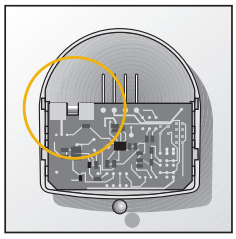
Conversion Chart	
2˚C	3.6˚F
3˚C	5.4˚F
4˚C	7.2˚F
5˚C	9.0˚F
6˚C	10.8˚F

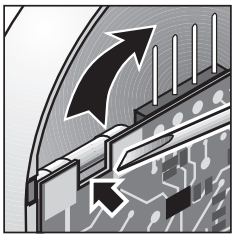
Service

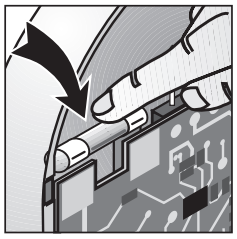
Fuse Exchange











The fuse classification is 1.0 A at 24 V AC.

Technical Data

Functions Chart

	Standard	Adjustable Set-back	Digital Timer
Operating Panel:			
Nominal temperature setpoint 50-82˚ F (10-28˚ C) with “soft click”	●	●	●
Large temperature scale with grade positioning	●	●	●
Operating status indicator with illuminated symbol		●	●
Selection switch for selecting operating mode		●	●
Internal Adjustments:			
Range limitation of the setpoint temperature	●	●	●
Temperature setback: 7.2˚ F (4˚ C) (non-adjustable)	●		
Temperature setback: adjustable 3.6-10.8˚ F (2-6˚ C)		●	●
Removeable digital timer, manual programming, 100h reserve			●
Technical Data:			
Operating voltage 24 V AC	●	●	●
Electronic switching output			
Switch current: max 1A*	●	●	●
Number of zone operators max. 5	●	●	●
“Automatic” temperature setback	●	●	●
“Automatic” program transmitting (pilot clock function)			●
Switching temperature differential: ca. 0.4˚ F/0.2˚ C	●	●	●
Contactor type/Contactor class casing: IP 30	●	●	●
Assembly: plug-in connection	●	●	●

* resistive load

General Notes

Temperature Set-back

The actual set-back in temperature of a room with activated set-back depends on the insulation of the building and the length of time that the set-back is in operation.

Technical Data

Storage temperature	-13…140˚F (-25…60˚C)
Ambient temperature	-13…104˚F (-25…40˚C)
Ambient humidity	max. 80% relative humidity, non-condensing