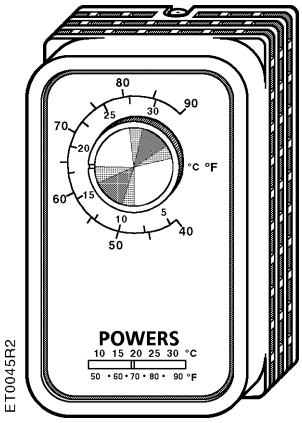
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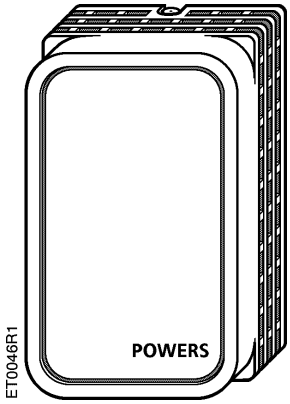
Technical Instructions
Document No. 155-017P25
ET 134-55
April 29, 2024

Powers™ Controls

ET 134 Line Voltage Room Thermostats



134-1084 &134-1085
Exposed Knobs



134-1084 & 134-1085
Concealed Adjustment

Description

The ET 134 series are line voltage, wall mounted thermostats that are available with exposed or concealed set point adjustment. Models are available with Single-Pole, Double-Throw (SPDT) contact action and for standard-duty (nominal 1/4 hp; 10 amps, non-inductive) or heavy-duty (nominal 1 hp;22 amps, non-inductive) applications.

Features

- Dual Fahrenheit and Celsius scale thermometers
- Separable mounting plate for mounting and wiring without removing cover
- Locking cover with Allen screws
- Concealed, adjustable low and high range stops
- Large, exposed set point knob
- Internal, dual Celsius and Fahrenheit scale
- Optional blank faceplate included

Warning/Caution Notations

WARNING	⚠	Personal injury/loss of life may occur if a procedure is not performed as specified**.**
CAUTION	⚠	Equipment damage may occur if the user does not follow a procedure as specified.

Siemens Industry, Inc.
Part No. 996-286 Rev. E

Application

These line voltage thermostats control heating, cooling or year-round air conditioning units in commercial, industrial or residential installations. Typical uses are for unit heaters, fan coils, blast coils, refrigerated storage rooms, electric heat, duct furnaces, greenhouses, etc.



WARNING:

These thermostats are designed for use only as an operating control. Where an operating control failure would result in personal Injury and/or loss of property, it is the responsibility ofthe installer to add devices (safety, limit controls) or systems (alarm, supervisory systems) that protect against, or warn of, control failure.

Product Number Specifications

Table 1. 134-1084 Electrical Ratings.

Description	**cULus**			
Volts AC 50/60 Hz	**120**	**208**	**240**	**277**
Full load amperes	12	6.9	5	—
Lock rotor amperes	72	41.4	30	—
Resistive amperes	10	10	10	10
Pilot duty	125 VA, 24 Vac to 277 Vac			

Table 2. 134-1085 Electrical Ratings.

Description	**cULus**			
Volts AC 50/60 Hz	**120**	**208**	**240**	**277**
Full load amperes	16	9.2	8	—
Lock rotor amperes	96	55.2	48	—
Resistive amperes	22	22	22	22
Pilot duty	125 VA, 24 Vac to 277 Vac			

Table 3. Product Numbers and Specifications.

Product Number	**Set Point Adjustment**	**Dual Set Point Range °F (°C)**	**Differential °F(°C)**	**Switch Action**	**Weight lbs. (kg)**
134-1084	*Exposed Knob, or Concealed	40 to 90 (5 to 32)	1.8 (1) Htg. 2.3 (1.3) Clg.	SPDT Heating/Cooling	1.0 (0.45)
134-1085			3 (1.7) Htg. 3.5 (2) Clg.		

Approval UL File E35198

*Each thermostat is shipped with a blank faceplate for use when concealed adjustment is desired.

Table 4. Conformity Declaration.

Information		**134-1084, 134-1085**
Purpose of control		Line voltage thermostats
Construction of control		Electromechanical independently mounted control
Number of cycles		100K cycles (auto reset switch)
Method of mounting control		Two cross key holes slots in base of case for mounting to a vertical outlet box 2 × 4 in. (51 × 102 mm)
Method of grounding of control		Wiring binding screw terminal
Type 1 or Type 2 action		Type 1.C (micro-interruption)
External pollution		Pollution degree 3
Internal pollution		Pollution degree 2
Rated impulse voltage		4,000 Vac
Ball pressure temperature		Auto reset switch component: 302°F (150°C)
Field wiring rating		Use copper conductors only
Switch		SPDT: 134-1084, 134-1085
Enclosure		UL: TYPE 1 (NEMA)
Wiring connection		Screw type terminals, terminal identification labelled on the barrier
Ambient conditions		32°F to 105°F (0°C to 40°C)
Compliance	North America	cULus listed; UL 60730, E60730, File E35198

Mounting

The proper location of a heavy-duty room thermostat is very important to ensure good performance.

- Make sure the thermostat is in a place where air circulates around it freely.
- Never install the thermostat on or near an outside wall.
- Keep the thermostat away from windows and doors.
- Do not locate the thermostat too close to a strong light or any other false source of heat such as direct sunlight, steam lines, etc.
- Mount the thermostat on a post or partitioning wall, but make sure that there are no pipes or duct work in that wall or in the other side of the wall.
- Mount in a vertical position.

Wiring

WARNING:

Disconnect the power supply before wiring connections are made to avoid possible electrical shock or equipment damage.

Make all wiring connections using copper conductors only and in accordance with theNational Electrical Code and local regulations. Loads exceeding the rating of the thermostat should be handled by means of a relay or motor starter.

- Install an electrical conduit box for the thermostat.
- Pull the required wires to this box.

CAUTION:

Use terminal screws furnished (No. 8-32 × 1/4-inch binder head screw). Substitution of other screws can cause problems in making proper connections.

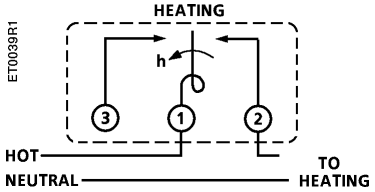
Service

There is no servicing of the thermostat. Replace if inoperative.

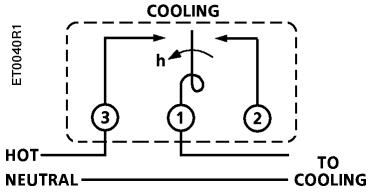
Installation

Read the *Mounting and Wiring* sections.

1. Do not remove the thermostat cover to install.
2. Remove the mounting plate from the back of the thermostat by unscrewing the mounting plate locking screw (see **Error! Reference source not found.***)* with t he Allen wrench provided.
3. Fasten the plate to the conduit box with the screws provided on the mounting plate.
4. Make the wiring connections to the terminals on the back of the thermostat. Terminal number 1 identification is stamped on the terminal block. See Figure 1 for typical wiring diagrams.



Typical heating application for 134-1084, and 134-1085 thermostats.



Typical cooling application for 134-1084, and 134-1085 thermostats.

Figure 1. Wiring Diagrams.

5. Hook the two slots in the back of the thermostat over the prongs of the mounting plate. Swing the thermostat into position on the plate.
6. Tighten the mounting plate locking screw.

The installation is now complete.

Adjustments

To remove the thermostat cover

1. Pull off the knob.
2. Loosen the thermostat cover screw with the Allen wrench provided.

To convert to concealed adjustment

1. Remove the thermostat cover by loosening the Allen screws at the top and bottom of the thermostat. The Allen wrench is included with the thermostat.
2. Peel off the backing from the enclosed faceplate.
3. Position the new faceplate over the factory-installed faceplate.
4. Press firmly onto the cover.
5. Set the thermostat dial by lining up the desired set point at the nine o'clock position.
6. Replace the cover and tighten the thermostat cover screw.

To set high and low range stops

See Figure 2.

1. Before the cover is removed, set the dial to the maximum stop setting.
2. Pull off the knob.
3. Hold the dial firmly, press tab "A", and rotate the tab clockwise until it stops against stop “C”.
4. Release the tab and be sure it snaps into the desired notch.
5. Set the dial at the lowest temperature stop setting desired.
6. Hold the dial firmly, press tab "B" and rotate it counterclockwise until it stops against stop “C”.
7. Release the tab and be sure it snaps into the desired notch.
8. Replace the cover, tighten the cover screw, and push on the knob.
9. Rotate the knob to the desired setting.

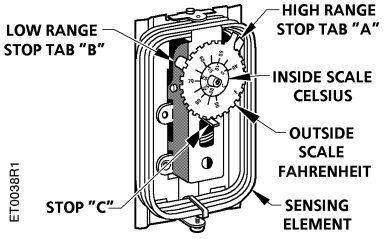


Figure 2. Interior of 134-1084, and 134-1085 Thermostats with High and Low Adjustment Stops.

Dimensions

Dimensions in Inches
(Millimeters)

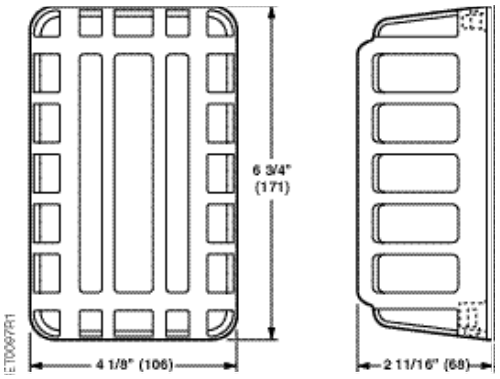


Figure 3. Dimensions of the 134-117Thermostat Guard.

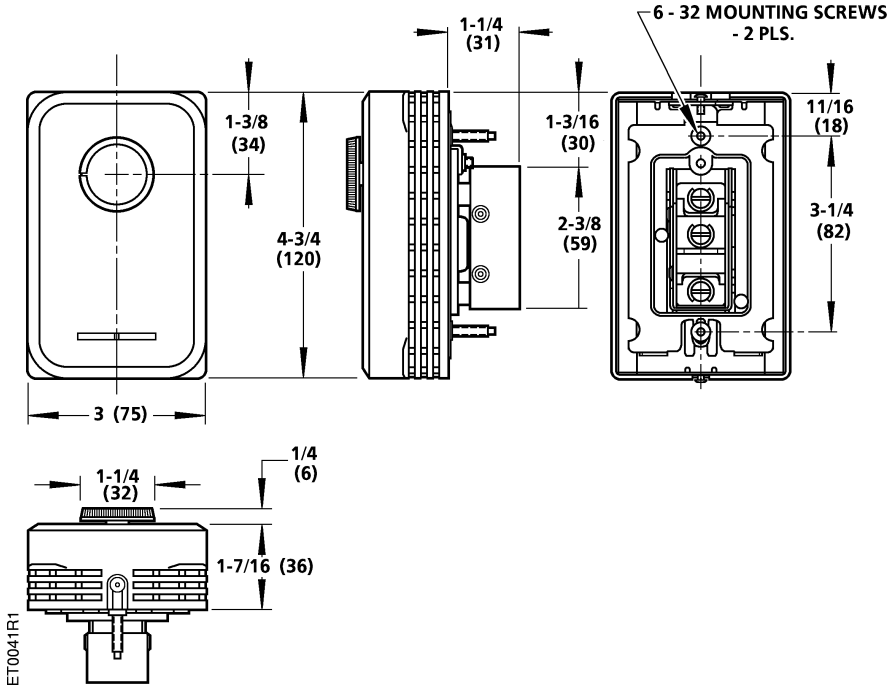


Figure 4. Dimensions of 134-1084, and 134-1085 Thermostats.

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