## SIEMENS



# 7-day room temperature controller REV34..

Heating applications

- Mains-independent, battery-operated room temperature controller featuring user-friendly operation, easy-to-read display and large numbers.
- 3-position controller with PI mode and optimum start control.
- Possibility to adapt volume and control gain.
- Operating mode selection:
  - 7-day automatic mode with max. 3 heating phases.
  - Continuous comfort mode.
  - Continuous energy saving mode.
  - Frost protection.
  - Exception day (24 hour operation) with max. 3 heating phases.
- A separate temperature setpoint can be entered in automatic mode and for the exception day for each heating phase.
- Heating zone control.

Use

Room temperature control in:

- Single-family and vacation homes.
- Apartments and offices.
- Individual rooms and professional office facilities.
- Commercially used spaces.
- To control electric 3-position actuators with a running time of **120....150 seconds**, for use with stroke and rotary actuators.

	PI control.	
	• 3-point control.	
	• 7-day time switch.	
	Remote control.	
	Preselected 24-hour operating modes.	
	Override button.	
	Holiday mode.	
	Party mode.	
	Frost protection.	
	Holiday mode.	
	<ul><li>Information level to check settings.</li><li>Reset function.</li></ul>	
	Sensor calibration.	
	<ul><li>Optimum start control in the morning (P.1).</li></ul>	
	<ul> <li>Adaption of integral action time (volume adaption).</li> </ul>	
	<ul> <li>Adaption of control gain (heat output adaption).</li> </ul>	
	<ul> <li>Synchronization to radio time signal from Frankfurt, Germany (R</li> </ul>	
		L V 0 4 D 0 ).
Type summary		
	Room temperature controller with 7-day time switch	REV34
	Room temperature controller with 7-day time switch and	
	receiver for time signal from Frankfurt, Germany (DCF77)	REV34DC
Ordering		
	Disease indicate the type number of per the "Type summer," when	
	Please indicate the type number as per the "Type summary" when c	braering.
Delivery		
	The controller is supplied with batteries.	
Mechanical design		
Mechanical design		
	Plastic casing with an easy-to-read display and large numbers, easi	ily accessible
	Plastic casing with an easy-to-read display and large numbers, easi operating elements, and removable base.	ily accessible
	operating elements, and removable base. The housing contains the controller's electronics, DIP switches, and	the relay with
	operating elements, and removable base. The housing contains the controller's electronics, DIP switches, and potential-free changeover contact. The easily accessible battery cor	the relay with
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1		Display		
		Change battery	<b>2 1.0</b> °c	Room temperature (measured)
Ļ		Alarm	TEMPERATURE	Clear text display line (max. 18 spaces)
	<u> </u>	Heating mode		24 hour timeframe
1	1E ]]	Weekday (max. 3 spaces)	0 4 8 12 18 20 24	Switching pattern with flashing time cursor
I	nfo	Info	12345	Weekday block
n	þ	Setpoint for remote control	67	Weekend block
selection	*		7	Weekday
	Ē	Setpoint for absence	h	Time unit
Without language		Room temperature	Ē	Absence/holiday mode set
ithout I		Setpoint for frost protection mode		Absence/holiday mode active
Š	$\square$	Energy saving mode setpoint	Y	Party mode active
	•))	Time signal from Frankfurt	°C / °F	Temperature unit °C or °F
17:1	J3·08	Date (day - month - year)		Close actuator/valve
20	2:30	Time of day		Open actuator/valve
				Remote control active

2	Operating mode selector
Auto	Automatic weekly mode with max. three heating phases per day.
94	Exception day with max. three heating phases.
柒	Continuous comfort mode (= continuous comfort temperature).
$\bigcirc$	Continuous energy saving mode (= continuous energy saving temperature).
()	Frost protection.

3	INFO
ì	Pressing the Info button once illuminates the display. Illumination automatically turns off after a short period of time. Pressing the Info button again activates the information display: <b>Info</b> is lit. The unit first displays queued error messages followed by important information (e.g. time switch programs, etc.).

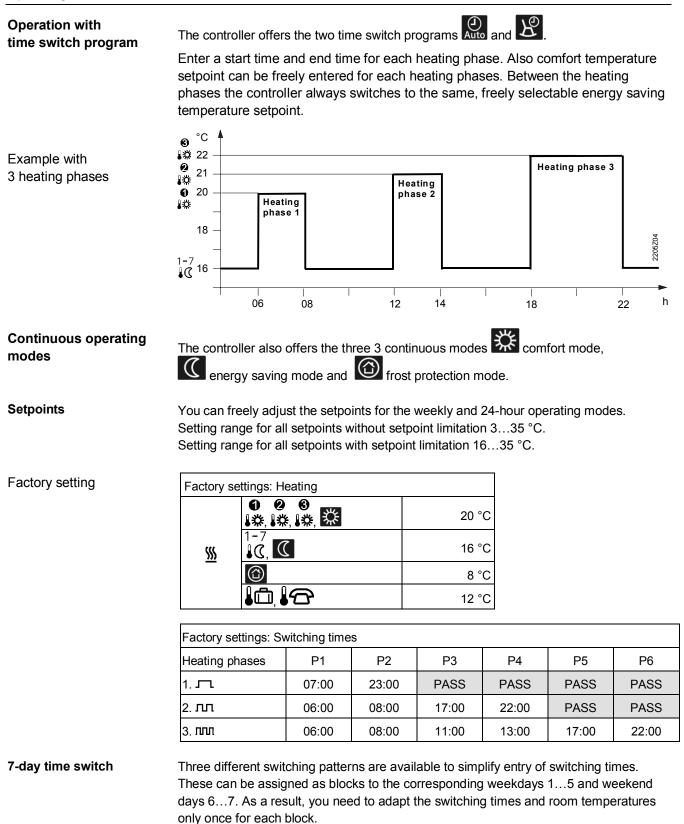
4	Plus button
+	Increase values, set time, or make a selection.

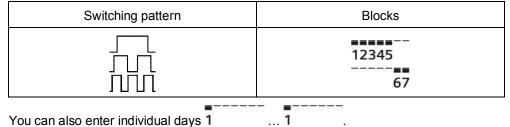
3/14

5	Override button / party mode
	In the time switch program, this button allows you to quickly change from the active temperature level to the next and back.
	Thus, you can quickly change to energy saving temperature when you leave the apartment for a short period of time, thus saving energy.
- <b>1</b>	The display indicates the change. It is valid only until the next switching time.
τ <b>ω</b> ) Υ	Activate party mode: Press the button for 3 seconds.
	Party mode is available only in operating modes $\bigcirc$ and $\bigcirc$ . In party mode, the controller controls to a freely selectable temperature for a freely selectable period of time. In party mode, symbol $\Upsilon$ is displayed along with the end of party mode.

6	Minus button
-	Decrease values, set time, or make a selection

7	Program selection slider							
ط پې								
$\Theta$	Time.							
dd mm yy	Day – Month – Year	(2 spac	es for day, month, ar	ıd year)				
1-5 6-7 17	Weekday, weekend,	or indiv	idual day blocks					
	1, 2, or 3 heating phases							
P1	Start Heating phase 1	P3	Start Heating phase 2	P5	Start Heating phase 3			
 ↓☆	Setpoint Heating phase 1	<b>⊘</b> ↓ <b>☆</b>	Setpoint Heating phase 2	€ ↓ <b>☆</b>	Setpoint Heating phase 3			
P2	End Heating phase 1	• P4	End Heating phase 2	₽6	End Heating phase 3			
1-7 ₿C	Energy saving temperature in the automatic mode and exception day time switch programs							
≙	Start of absence / holiday							
Initiation (1997) (19977) (19977) (1997) (1997) (1997) (1997) (1997) (1997)	Temperature setpoint during absence / holiday							
<b>_</b>	End of absence / holiday							
6	Temperature setpoint at active remote control							
RUN	Slider position RUN a	allows fo	or closing the cover					





rou can also

You can enter the beginning, temperature and end of your holidays. At the beginning of the holidays, the controller switches to the desired holiday temperature and returns to the previously set operating mode at the end of the holidays.

In holiday mode, symbol **(I)** is displayed along with the end of holiday mode.

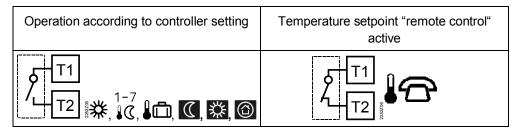
Proceed as follows to enter your settings:

ᢙ	Set slider to position 15 (start of absence): Press $+$ or $+$ to set the start date for your holidays.
₽₽	Set slider to position 16 (temperature during absence): Press $+$ or $+$ to set the desired temperature while on holidays.
<b>_</b>	Set slider to position 17 (end of absence): Press + or + to set the end date for your holidays.
RUN	Return the slider to position <b>RUN</b> . Symbol is displayed to the left of the symbol. Press O, O, O, O or move the slider to end holiday mode prematurely.

#### **Remote control**

Use a suitable remote control unit to activate the "Remote control" **C** temperature setpoint in the controller. Changeover takes place by making a **potential-free contact** connected to terminals T1 and T2.

A flashing **S** symbol indicates active remote control mode. After the contact opens, the previously set operating mode is reactivated.



Suitable remote control units are:

Telephone modem, manual switch, window contact, presence detector, central unit, etc.

You can freely select the temperature for active remote control. Activating remote control immediately enables control to the remote control temperature regardless of the currently active operating mode. When you deactivate remote control, the controller returns to the set operating mode.

A flashing **T** symbol indicates active remote control mode.

#### Proceed as follows to enter your settings:



Set slider to temperature position for active remote control: Press + or + to set the desired temperature for active remote control.

**RUN** Return the slider to position **RUN**.

Enter temperature for active remote control

#### **Technical features**

#### **DIP switches**

	riangle on / $ au$ off	1	2	3	4	5	6	7	8	9	10		See
	Sensor calibration On	$\triangle$					$\triangle$	Δ				Medium-sized room	
See A	Sensor calibration Off	$\bigtriangledown$					$\triangle$	$\bigtriangledown$				Small room	E
_	Setpoint limitation 1635 °C		$\triangle$				$\bigtriangledown$	$\triangle$				Large room	
В	Setpoint limitation 335 °C		$\bigtriangledown$				$\bigtriangledown$	$\bigtriangledown$				Medium-sized room	
	Temperature display °F			Δ					$\triangle$	$\triangle$		Normally sized heat output	
С	Temperature display °C			$\bigtriangledown$					$\triangle$	$\bigtriangledown$		Undersized heat output	_
	Start optimization: 1 h/°C				$\triangle$	$\triangle$			$\bigtriangledown$	$\triangle$		Oversized heat output	F
	Start optimization: ¼ h/°C				$\triangle$	$\nabla$			$\bigtriangledown$	$\bigtriangledown$		Normally sized heat output	
D	Start optimization: ½ h/°C				$\bigtriangledown$	$\triangle$					$\triangle$	Quartz	
	Start optimization: Off				$\bigtriangledown$	$\bigtriangledown$					$\bigtriangledown$	Radio clock	G
н	After you change one or several DIP switch positions, you must press the DIP switch reset button to reset the DIP switch (see also Fig. 5). Otherwise, the previous setting remains active!												
			Fac	tory	settin	g: All	DIP s	witch	es to	$ abla \mathbf{o} \nabla$	FF		

A Sensor calibration: DIP switch 1	If the displayed room temperature does not match the measured room temperature, the temperature sensor can be recalibrated. Set DIP switch to ON and press the DIP switch reset button: <b>CAL</b> symbol is displayed. The currently measured temperature flashes. Press $+$ or $+$ to recalibrate by max. $\pm$ 5 °C. Set DIP switch to OFF and press the DIP switch reset button to save the settings.				
<b>B</b> Setpoint limitation: DIP switch 2	The minimum setpoint limitation of 16 °C prevents undesired heat transfer to neighboring spaces in buildings featuring several heating zones. DIP switch ON: Setpoint limitation <b>1635</b> °C. DIP switch OFF: Setpoint limitation <b>335</b> °C (factory setting). Press the DIP switch reset button to save the settings.				
<b>C</b> Temperature display in °C or °F: DIP switch 3	DIP switch ON: Temperature display in ° <b>F</b> . DIP switch OFF: Temperature display in ° <b>C</b> (factory setting). Press the DIP switch reset button to save the settings.				
D Start optimization: DIP switches 4 and 5	Optimization advances the switch-on point P.1 to ensure that the selected setpoint is reached at the desired time. The setting depends on the controlled system, i.e., on heat transmission (piping system, radiators), building dynamics (building mass, insulation), and heat output (boiler capacity, flow temperature). DIP switches 4 ON and 5 ON: 1 $h/^{\circ}C$ For slow controlled systems. DIP switches 4 ON and 5 OFF: 1/4 $h/^{\circ}C$ For fast controlled systems. DIP switches 4 OFF and 5 ON: 1/2 $h/^{\circ}C$ For medium controlled systems. DIP switches 4 OFF and 5 OFF: OFF Off, no effect (factory setting). Press the DIP switch reset button to save the settings.				

	$\frac{1}{10^{10}} \frac{1}{10^{10}} $						
E Integral action time (Volume adaption): DIP switches 6 and 7	<ul> <li>DIP switches 6 ON and 7 ON: Normally sized controlled system, see factory setting.</li> <li>DIP switches 6 ON and 7 OFF: Fast controlled system: For small rooms, light radiators (plate heat exchangers), well insulated building or fan coils.</li> <li>DIP switches 6 OFF and 7 ON: Slow controlled system: For large rooms, heavy radiators (cast iron radiators), poorly insulated building, and large masses.</li> </ul>						
	DIP switches 6 OFF and 7 OFF (factory setting): Normally sized controlled system: For normal-size rooms, normally sized radiators (steel pipe radiator) and average insulated building. Press the DIP switch reset button to save the settings.						
F Control gain (Heat output adaptation): DIP switches 8 and 9	<ul> <li>DIP switches 8 ON and 9 ON:</li> <li>Normally sized heat output, see factory setting.</li> <li>DIP switches 8 ON and 9 OFF:</li> <li>Undersized heat output:</li> <li>For low boiler/flow temperatures, undersized radiators (area) and undersized volumetric flow (valve nominal width).</li> <li>DIP switches 8 OFF and 9 ON:</li> <li>Oversized heat output:</li> <li>For high boiler/flow temperatures, oversized radiators (area) and oversized volumetric flow (valve nominal width).</li> <li>DIP switches 8 OFF and 9 ON:</li> <li>Oversized heat output:</li> <li>For high boiler/flow temperatures, oversized radiators (area) and oversized volumetric flow (valve nominal width).</li> <li>DIP switch 8 OFF and 9 OFF (factory setting):</li> <li>Normally sized heat output.</li> <li>Press the DIP switch reset button to save the settings.</li> </ul>						
<b>G</b> Radio clock: DIP switch 10	Only applicable to REVDC (with integrated DCF77 receiver to receive time signal from Frankfurt, Germany)! DIP switch ON: Clock run by controller-internal quartz. DIP switch OFF: Time signal DCF77 from Frankfurt, Germany. Press the DIP switch reset button to save the settings.						
Note on synchronization	During startup, REVDC synchronizes automatically to the time signal (DCF77) from Frankfurt, Germany. Synchronization takes max. 10 minutes. Synchronization restarts each time you press the button or move the program selection slider from the RUN position during these 10 minutes. Siemens recommends to set the desired settings upon startup, install the REVDC in the desired location, and not carry out any actions on the REVDC for the next 10 minutes.						

	In normal operation, the REVDC synchronizes to the radio clock every day at 3:10 a.m.
Note on reception	The time signal from Frankfurt is modulated to a radio signal. The reception of this radio signal depends on the distance to Frankfurt, atmospheric conditions as well as the location where the REVDC is installed. Siemens cannot guarantee that the REVDC can receive the time signal from Frankfurt at any time and any place.
No reception	The radio clock symbol is deactivated and an error message is displayed if the clock was not able to synchronize the time for 7 consecutive days. The controller then runs on the internal quartz.
H DIP switch reset	After you change one or several DIP switch positions, you must press the DIP switch reset button to reset the DIP switch. Otherwise, the previous setting remains active!

#### Access to the expert level

Set the program selection slider to RUN. Press + and - simultaneously for 3 seconds, release the buttons, and within 3 seconds press and hold down  $\bigcirc$  and  $\stackrel{\textcircled{0}}{\textcircled{0}}$  simultaneously for 3 seconds, release  $\stackrel{\textcircled{0}}{\textcircled{0}}$ , and press  $\bigcirc$  for another 3 seconds. This releases the engineering settings. **Install** is displayed.

The display first shows language selection with Code 00. Press the buttons + or - to navigate the settings. Confirm settings by pressing  $\frac{[0, T]}{[0, T]}$ .

Press the operating mode selector  $\bigcirc$  to exit the engineering settings.

#### Code list

Function block	Code	Name	Factory setting	Your setting
Basic settings	00	Language	English	
	01	Sensor calibration	off	
	02	Switching differential 2-point	0.5 °C	
LCD optimization	10	Illumination time	10 seconds	
	11	Background brightness	0	
	12	Contrast	0	
Clock settings	30	Time zone Deviation from time signal in Frankfurt (Central European Time CET) (see Note 1)	0 hours	
	31	Start of daylight saving time (see Note 2)	March 31 (03-31)	
	32	End of daylight saving time (see Note 3)	October 31 (10-31)	

Note 1:	This entry has no effect if the radio clock either is inactive or not available. The time signal received from Frankfurt is shifted by the value set in Code 30 (time zone) if the radio clock is active.
Note 2:	The time is always changed over at 2 a.m. on the Sunday preceding the set date if there is no radio clock or if it is inactive. The time change is shifted by the value set in Cada 20 (time range) when the radia clock is partice.
Note 3:	Code 30 (time zone) when the radio clock is active. The time is always changed over at 3 a.m. on the Sunday preceding the set date if there is no radio clock or if it is inactive.

- a) Check the display. If there is no display, check insertion and function of the batteries.
- b) Operating mode "Continuous comfort mode" 🗱, read displayed temperature.
- c) Set temperature setpoint to maximum (see operating instructions).
- d) After 1...5 minutes, the relay to open the actuator must switch on. Symbol **A** is displayed. The actuator OPENS. If not:
  - Check actuating device and wiring. •
  - It is possible that the room temperature is higher than the set temperature setpoint.
- e) Set temperature setpoint to minimum (see operating instructions).
- f) After 1...5 minutes, the relay to open the actuator must switch off and the relay to close the actuator must switch on. Symbol ▼ is displayed. The actuator CLOSES. If not:
  - Check actuating device and wiring.
  - It is possible that the room temperature is lower than the set temperature setpoint.
- g) Set the temperature setpoint for operating mode "Continuous comfort mode" 🕮 to the desired value.
- h) Select the desired operating mode.

#### Reset

#### **User-defined settings:**

 $\bigcirc$ . + and - simultaneously for 3 seconds:

This resets all temperature and time settings of the program selection slider to default values (see also "Factory settings" in the operating instructions). The expert settings remain unchanged.

The clock starts at 12 p.m., the date on 01-01-08 (01 January 2008).

During the reset, all display fields are lit and can be checked accordingly.

All user-defined settings plus expert settings:

Press the DIP switch reset button seconds:

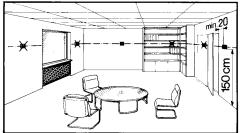


After the reset, all factor settings are reloaded. This applies to the program selection slider as well as to the expert settings.

The controller starts with an initialization phase of 180 seconds after each reset. In this phase, the actuator is driven to the basic position CLOSED.

Important: Driving the actuator to the fully CLOSED position takes max. 150 seconds. After a reset, reinsert the controller in the base within 30 seconds.

- Mount the room unit in the main living room.
- Select the mounting place so that the sensor can acquire the air temperature in the room as accurately as possible and without being influenced by solar radiation or other heat or refrigeration sources.
- Mounting height is approx. 1.5 m above the floor.
- You can mount the unit on most commercially available recessed conduit boxes or directly on the wall.

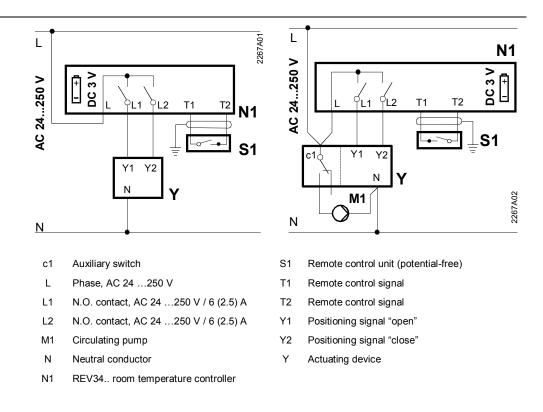


### Mounting and installation

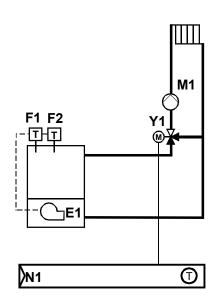
- Begin installation by first attaching and wiring the base. You can mount the base on most commercially available recessed conduit boxes or directly on the wall. Insert the controller from top to bottom in the base.
  See the operating instructions delivered with the unit for more information.
  Comply with all local regulations on electrical installations.
  Wire the remote control contact T1/ T2 separately, i.e. using a separate, screened cable.
- Preparations to Set any thermostatic radiator valves to their fully open position, if present in the commission reference room. the unit Recalibrate the temperature sensor (see "Sensor calibration") if the displayed room temperature does not match the room temperature measured. Commissioning Remove the battery transit tab. The unit is ready for operation and executes a 180 second initialization period as soon as you remove the transit tab from the battery contact. In this phase, the actuator is driven to the basic position CLOSED. Important: Driving the actuator to the fully CLOSED position takes max. 150 seconds. Reinsert the controller in the base within 30 seconds after removing the black battery transit tab! Select operating During the above actuator initialization phase, the controller type is displayed at the top left along with a welcome message "THANK YOU..." in all available languages. language Press any button to interrupt the scrolling text. Operating language selection starts with "ENGLISH" (factory setting). Press + or - until you reach the desired operating language. Press Control or move the slider to confirm the selected operating language. If synchronization is not yet completed after language selection, the remaining time is counted down on the display. Do not press any button during this time! If synchronization is complete after you select the operating language, you can continue to set the time of day (as needed), date, comfort phases, etc.. Notes This is a software class A controller designed for use at a normal degree of pollution.

#### Disposal

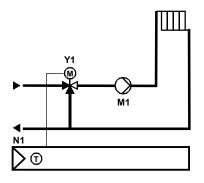
Technical data	<ul> <li>The devices are considered electronics devices for disposal in term of European Directive 2012/19/EU and may not be disposed of as domestic waste.</li> <li>Dispose of the device via the channels provided for this purpose</li> <li>Comply with all local and currently applicable laws and regulations.</li> <li>Dispose of empty batteries at designated collection points.</li> </ul>		
General unit data	Power Batteries (alkaline AA) Life Backup of clock when changing battery (all other data remain in EEPROM)	DC 3 V 2 x 1.5 V Ca. 2 years Max. 1 min	
	Switching capacity of relay Voltage Current	AC 24250 V 0.16 (2.5) A	
	Protection class Sensing element Measuring range Time constant	II as per EN 60 730-1 NTC 10 kΩ Ω1 % at 25 °C 050 °C Max. 10 min	
	Setpoint setting ranges All temperature settings Resolution for settings and displays	335 °C	
	Setpoints Switching times Actual value measurement Actual value display Time display	0.2 °C 10 min 0.1 °C 0.2 °C 1 min	
Standards	EU Conformity (CE)	Document number: REV34: 8000078256_xx_A <sup>*</sup> ) REV34DC: 8000078257 xx A <sup>*</sup> )	
	C-tick	<b>C</b> N474	
Product safety Environmental conditions	Degree of protection Operation Climatic conditions	IP20 3K3 as per IEC 60 721-3-3	
	Temperature Humidity Storage and transport	540 °C < 85 % r.h.	
	Climatic conditions Temperature Humidity	2K3 as per IEC 60 721-3-2 -2570 °C < 93 % r.h.	
	Mechanical conditions	2M2 as per IEC 60 721-3-2	
Weight	Excl. packaging	0.32 kg	
Color	Housing	RAL9003 signal white	
	Base	RAL7038 gray	
Size	Housing with base *) The documents can be downloaded from <u>http://si</u>	90 x 134.5 x 30 mm ded from <u>http://siemens.com/bt/download</u> .	



#### **Application examples**



Instantaneous water heater



Zone valve

#### E1 Burner

- F1 Thermal reset limit thermostat
- F2 Manual reset safety limit thermostat
- M1 Circulating pump
- N1 REV34.. room temperature controller
- Y1 Three-port valve with actuator

#### Dimensions

