SIEMENS



Weekday / weekend room temperature controller REV17..

Heating applications

- Mains-independent, battery-operated room temperature controller featuring user-friendly operation, easy-to-read display and large numbers
- Self-learning two-position controller with PID response (patented)
- Operating mode selection:
 - 7-day (weekday / weekend) 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
- To control a heating zone

Use

Room temperature control in:

- Single-family and vacation homes
- Apartments and offices

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- Individual rooms and professional office facilities
- Commercially used spaces

Control for the following equipment:

- Magnetic valves of an instantaneous water heater
- Magnetic valves of an atmospheric gas burner
- Forced draught gas and oil burners
- Electrothermal actuators
- Circulating pumps in heating systems
- Electric direct heating
- Fans of electric storage heaters
- Zone valves (normally open or normally closed)

- PID control with self-learning or selectable switching cycle time
- 2-point control
- 7-day time switch
- Remote control
- Preselected 24-hour operating modes
- Override function
- Holiday mode
- Party mode
- Frost protection mode
- Information level to check settings
- Reset function
- Sensor calibration
- Minimum limitation of setpoint
- Periodic pump run
 Protection against valve seizure
- Synchronization to radio time signal from Frankfurt, Germany (REV17DC)

Type summary

Room temperature controller with 7-day (weekday/weekend) time switchREV17Room temperature controller with 7-day (weekday/weekend) time switch andreceiver for time signal from Frankfurt, Germany (DCF77)REV17DC

Ordering

Please indicate the type number as per the "Type summary" when ordering.

Delivery

The controller is supplied with batteries.

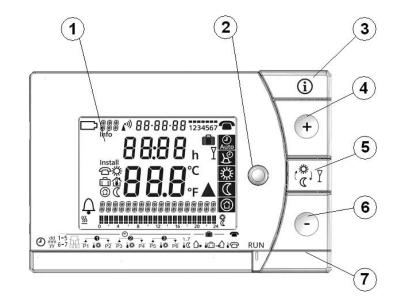
Mechanical design

Plastic casing with an easy-to-read display and large numbers, easily accessible operating elements, and removable base.

The housing contains the controller's electronics, DIP switches, and the relay with potential-free changeover contact. The easily accessible battery compartment allows for easy exchange of two 1.5 V alkaline batteries, type AA.

The base with terminal block provides lots of space to connect the wires.

Display and operating elements



		Display		
		Change battery	17:03:08	Date (day - month - year)
	Ţ	Alarm	0E:55	Time of day
	<u> </u>	Heating mode	2 1.0 ℃	Room temperature (measured)
			TEMPERATURE	Clear text display line (max. 18 spaces)
1		Weekday (max. 3 spaces)	NANA NAN ANANAN ?	24 hour timeframe
I	nfo	Info	o 4 8 12 18 20 24	Switching pattern with flashing time cursor
selection	⑦	Setpoint for remote control Setpoint for comfort mode	<u>12345</u> 67	Weekday block Weekend block
age	Ē	Setpoint for absence	h	Time unit
angua		Room temperature	Ð	Absence/holiday mode set
Without language		Setpoint for frost protection mode		Absence/holiday mode active
Wit	C	Energy saving mode setpoint	Y	Party mode active
			°C / °F	Temperature unit °C or °F
	((t• <u>)</u>	Time signal from Frankfurt		Heating/pump on
				Remote control active

2	Operating mode selector
Auto	Automatic weekly mode with max. three heating phases per day.
\mathcal{R}_{\odot}	Exception day with max. three heating phases.
柒	Continuous comfort mode (= continuous comfort temperature).
\langle	Continuous energy saving mode (= continuous energy saving temperature).
	Frost protection mode (= continuous frost protection temperature).

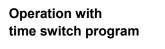
3	INFO
ì	Pressing the Info button once illuminates the display. Illumination automatically turns off after a short period of time. Pressing the Info button again activates the information display: Info is lit. The unit first displays queued error messages followed by important information (e.g. time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

4	Plus button
$\mathbf{+}$	Increase values, set time, or make a selection.

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.							
.	The display indicates the change. It is valid only until the next switching time.							
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 Υ is displayed along with the end of party mode.							

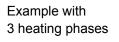
6	Minus button
_	Decrease values, set time, or make a selection

7	Program selection s	slider							
ط پې	1-5 1 1 1 1 ↓ ★ P	6 2 P3	0 2 ↓☆ P4 P5 ↓☆ I	₽ 1-7 P6 €C	— m — m (→ in -) i⊖				
\bigcirc	Time								
dd mm yy	Day – Month – Year (2 spaces for day, month, and year)								
1-5 6-7	Block of weekdays or block of weekend								
	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	⊘ ₿₩	Setpoint Heating phase 2	€ ↓ ☆	Setpoint Heating phase 3				
₽2	End Heating phase 1	₽4	End Heating phase 2	₽ 6	End Heating phase 3				
1-7 ₿ ₡	Energy saving tempe switch programs	erature i	n the automatic mode	e and ex	ception day time				
≙	Start of absence / ho	liday							
I	Temperature setpoin	t during	absence / holiday						
→	End of absence / hol	iday							
1 0	Temperature setpoin	t at acti	ve remote control						
RUN	Slider position RUN a	allows f	or closing the cover						

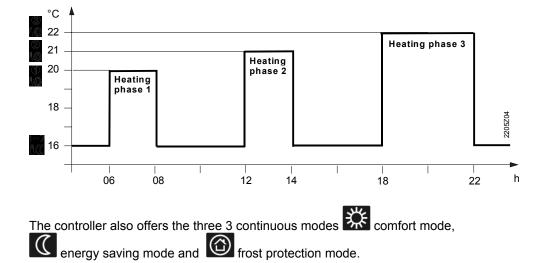


The controller offers the two time switch programs Auto and B.

Enter a start time and end time for each heating phase. Also comfort temperature setpoint can be freely entered for each heating phases. Between the heating phases the controller always switches to the same, freely selectable energy saving temperature setpoint.



Continuous operating



Setpoints

Factory setting

modes

You can freely adjust the setpoints for the weekly and 24-hour operating modes. Setting range for all setpoints without setpoint limitation 3...35 °C. Setting range for all setpoints with setpoint limitation 16...35 °C.

Factory settings: Heating								
	0 2 3 I*, I*, I*, I *	20 °C						
\$ \$\$	1-7 ₽ C , C	16 °C						
_	\bigcirc	8 °C						
		12 °C						

Factory settings: Switching times							
Heating phasesP1P2P3P4P5						P6	
1. ፲፲	07:00	23:00	PASS	PASS	PASS	PASS	
2. ЛЛ	06:00	08:00	17:00	22:00	PASS	PASS	
3. ППЛ	06:00	08:00	11:00	13:00	17:00	22:00	

Weekday / Weekend -**Time switch** Three different switching patterns are available to simplify entry of switching times. These can be assigned as blocks to the corresponding weekdays 1...5 and weekend days 6...7. As a result, you need to adapt the switching times and room temperatures only once for each block.

Switching pattern	Blocks
	12345 67

Enter holidays or absences

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 **u** is displayed along with the end of holiday mode.

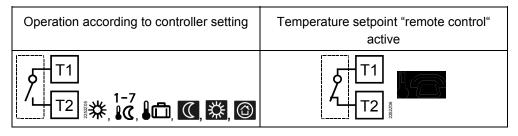
Proceed as follows to enter your settings:

ᡗ	Set slider to position 15 (start of absence): Press + or - to set the start date for your holidays.
₿ Ĉ	Set slider to position 16 (temperature during absence): Press + or - to set the desired temperature while on holidays.
_	Set slider to position 17 (end of absence): Press + or - to set the end date for your holidays.
RUN	Return the slider to position RUN. Symbol is displayed to the left of the symbol. Press 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 **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.

Enter temperature for active remote control

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 The symbol indicates active remote control mode.

Proceed as follows to enter your settings:



Set slider to position 18 (temperature for active remote control): Press + or - to set the desired temperature for active remote control.

RUN Return the slider to position RUN.

Technical features

DIP switches

	riangle on / $ au$ off	1	2	3	4	5	6	7									
	Sensor calibration On						Δ			Periodic pump run and anti-lime function On	E						
Α	Sensor calibration Off	\bigtriangledown					\bigtriangledown			Periodic pump run and anti-lime function Off	E						
	Setpoint limitation 1635 °C		Δ					Δ		Quartz	F						
В	Setpoint limitation 335 °C		\bigtriangledown					\bigtriangledown		Radio clock							
с	Temperature display °F			\triangle													
C	Temperature display °C			∇					ange one or several		G						
	PID self-learning				Δ	Δ			ositions, you must P switch reset button								
D	PID 6				Δ	∇			DIP switch.								
	PID12				∇	Δ		wise, f Ins act	the previous setting ive!								
	2-point				∇	\bigtriangledown											
		Fa	octory	settir	ng: Al	I DIP :	switche	Factory setting: All DIP switches to $ abla$ OFF									

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: CAL symbol is displayed. The currently measured temperature flashes. Press $+$ or $-$ to recalibrate by max. $\pm 5 ^{\circ}$ C. Set DIP switch to OFF and press the DIP switch reset button to save the settings.
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 1635 °C. DIP switch OFF: Setpoint limitation 335 °C (factory setting). Press the DIP switch reset button to save the settings.
C Temperature display in °C or °F: DIP switch 3	DIP switch ON: Temperature display in ° F . DIP switch OFF: Temperature display in ° C (factory setting). Press the DIP switch reset button to save the settings.

D Control behavior: DIP switches 4 and 5	 The REV17 is a two-position controller with PID control. The room temperature is controlled through cyclic switching of an actuating unit. DIP switches 4 ON and 5 ON: PID self-learning Adaptive control for all applications. DIP switches 4 ON and 5 OFF: PID 6 Fast controlled system for applications in locations with large temperature deviations. DIP switches 4 OFF and 5 ON: PID 12 Normal controlled system for applications in locations with normal temperature deviations. DIP switches 4 OFF and 5 OFF: 2-point For complex controlled systems, simple two-position controller with 0.5 °C switching difference (factory setting). Press the DIP switch reset button to save the settings.
E Periodic pump run and anti-lime function: DIP switch 6	Only applicable with controlled circulating pump or valve! This function protects the pump or valve during extended OFF periods against possible seizure caused by liming. Periodic pump run is activated every 24 hours at 12 p.m. for three minutes (symbol ▲ is displayed during active pump run). DIP switch ON: Pump run On. DIP switch OFF: Pump run On (factory setting). Press the DIP switch reset button to save the settings.
F 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: I Time signal DCF77 from Frankfurt, Germany. Press the DIP switch reset button to save the settings.
Note on synchronization Note on reception No reception	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. 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. 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.
G 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 \bigcirc and \bigcirc simultaneously for 3 seconds, release \bigcirc , 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 ?

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

Code list

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

Note 3: 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.

Functional check

- 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 the temperature setpoint higher than the displayed room temperature (see operating instructions).
- d) The relay and, as a result, the actuating device must switch at the latest after one minute. Symbol ▲ is displayed. If not displayed:
 - Check actuating device and wiring.
 - It is possible that in heating mode the room temperature is higher than the set temperature setpoint.
- e) Set the temperature setpoint for operating mode "Continuous comfort mode" 🗱 to the desired value.
- f) Select the desired operating mode.

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.

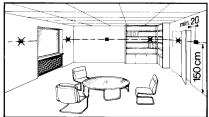
All user-defined settings plus expert settings:

Press the DIP switch reset button , + and - simultaneously for 5 seconds:

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

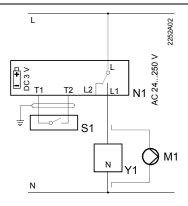
Engineering

- Mount the room temperature controller 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.



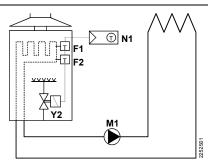
Mounting and Installation	 Begin installation by first attaching and wiring the base. You can mount the base on most commercially available recessed conduit boxes or directly on the wall. Then insert the controller from top to bottom into the base. For more information, see the installation instructions supplied with the unit. Comply with all local regulations on electrical installation. Wire separately the remote control contact T1 / T2 using a separate, shielded cable.
Commissioning	 Remove from the batteries the battery transit tab designed to prevent premature activation of the unit: Select desired language by + or Confirm by ??. You can change the control characteristics using the DIP switch on the rear of the unit. Set any thermostatic radiator valves to their fully open position, if present in the
	reference room.
	 Recalibrate the temperature sensor (see "Sensor calibration") if the displayed room temperature does not match the room temperature measured.
Notes	This is a software class A controller designed for use at a normal degree of pollution.

General unit data	Supply	DC 3 V
	Batteries (alkaline AA)	2 x 1,5 V
	Life	Ca. 2 years
	Backup of clock when changing battery	-
	(all other data remain in EEPROM)	
	Switching capacity of relay	
	Voltage	AC 24250 V
	Current	0.16 (2.5) A
	Protection class	II as per EN 60 730-1
	Sensing element	NTC 10 kΩ ±1 % at 25 °C
	Measuring range	050 °C
	Time constant	Max. 10 min
	Setpoint setting ranges	
	All temperature settings	335 °C
	Resolution for settings and displays	
	Setpoints	0.2 °C
	Switching times	10 min
	Actual value measurement	0.1 °C
	Actual value display	0.2 °C
	Time display	1 min
Standards	CE conformity	
	Electromagnetic compatibility	2004/108/EEC
	Low voltage directive	2006/95/EC
	C-tick	N474
Product safety	Automatic electrical controls for household	
Troduct salety	and similar use	
		EN 60 730-1
	Electromagnetic compatibility	
	Immunity	EN 61000-6-2
	Emissions	EN 61000-6-3
Environmental conditions	Operation	
	Climatic conditions	3K3 as per IEC 60 721-3
	Temperature	540 °C
	Humidity	<85 % r.h.
	Storage and transport	
	Climatic conditions	2K3 as per IEC 60 721-3
	Temperature	-2570 °C
	Humidity	<93 % r.h.
	Mechanical conditions	2M2 as per IEC 60 721-3
Weight	Excl. packaging	0.29 kg
Color	Housing	RAL9003 signal white
	Base	RAL7038 gray
Size	Housing with base	90 x 134.5 x 30 mm
	V	

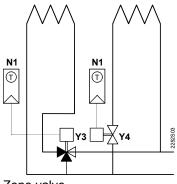


REV17 / REV17DC

- L Phase, AC 24 ... 250 V
- L1 N.O. contact, AC 24 ...250 V / 6 (2.5) A L2 N.C. contact,
- AC 24 ... 250 V / 6 (2.5) A M1 Circulating pump
- NI Circulating pump
- N1 REV17... controller
- **Application examples**



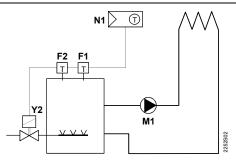
Instantaneous water heater



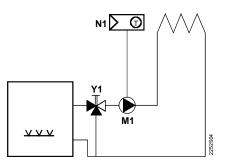
Zone valve

- F1 Thermal reset limit thermostat
- F2 Manual reset safety limit thermostat
- M1 Circulating pump
- N1 REV17.. room temperature controller Y4

- S1 Remote control unit (potential-free)
- T1 Remote control signal
- T2 Remote control signal
- Y1 Actuating device

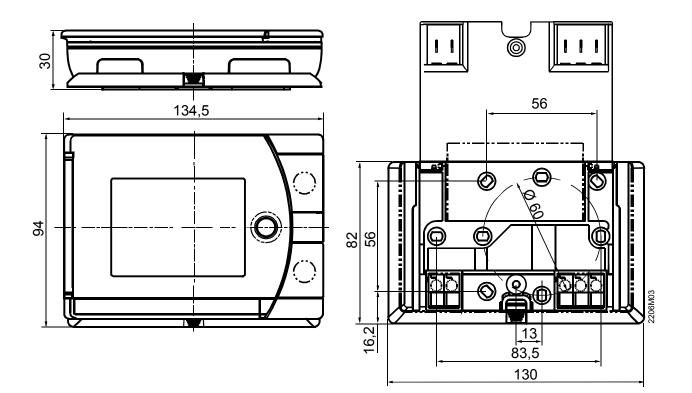


Atmospheric gas burner



Circulating pump with precontrol by manual mixing valve

- Y1 3-port valve with manual adjustment
- Y2 Magnetic valve
- Y3 Three-port valve with actuator
 - 1 Two-port valve with actuator



Subject to change

REV17 User Guide

Slider Positions

								Slide	er Pos	sition	S							
		······································														7		
Ð	dd mm УУ	1-5 6-7		₽1	0 1\$	₹ P2	 ₽3	0 10	₽4	₽ 5	€ 1¢	₽6	1-7 IC	ᢙ	lô	-	1 0	RUN
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Time setting	Date Day / Month / Year	Weekdays 1-5 Weekend 6-7	1, 2 or 3 Comfort phases	Start time Comfort phase 1	Temperature Comfort phase 1	End Comfort phase 1	Start time Comfort phase 2	Temperature Comfort phase 2	End Comfort phase 2	Start time Comfort phase 3	Temperature Comfort phase 3	End Comfort phase 3	Saving temp. time program	Start Absence	Temperature Absence	End Absence	Temperature remote control	

STEP	Symbol	Programming
		Initial Start Up - Enabling Battery Power:
1		Remove the controller from the mounting base and pull out the black insulating tape tab from the battery compartment: The controller turns on automatically. Re-insert the controller in the mounting base.
		Language Selection:
2	+	After startup, a welcome message appears for approx 2 minutes. Press a button to interrupt the message. Language selection starts with "ENGLISH" (factory setting). Press + or - until your desired language appears. Press (**) or move the slider to accept your language choice. Hint: if you choose the incorrect language, an Expert Level Reset will need to be performed. This is achieved by:
		Pressing simultaneously the DIP switch reset button (on the back of the unit under the dip switch cover) and the + and for 5 seconds: After this reset, all factory settings will be reloaded. This applies to both the slider settings and the settings made on the expert level.
3	٩	Setting Time: Move the Slider to position 1 (time setting): Press + or - to set the time.
4	dd mm yy	Slider in position 2 (date: day/month/year): Press + or - to set the date. (Note: the day of the week is automatically chosen)
	4 5	Weekday (1-5) and Weekend (6-7) Blocks:
5	1-5 6-7	Slider in position 3 (Monday- Friday weekdays $1-5$, Saturday and Sunday weekend $6-7$): You will notice the flashing 12345 or 67 blocks in the top right hand corner. Press the + or - to toggle between both blocks.
		Comfort Phases:
6		Slider in position 4 (there are 3 comfort phases): Press + or - to set the comfort phases you desire.
		Setting Time in Comfort Phase 1:
7	P1	Slider in position 5 (start time comfort phase 1): Press $+$ or $-$ to set the start time.
	PI	Hint: you will notice the flashing time cursor on the 24 hour time bar (at the bottom of the screen) corresponding with the entered time, moves as you adjust the time with the + or - buttons
8	()	Setting Temperature in Comfort Phase 1:
	I #	Slider in position 6 (temperature comfort phase 1): Press + or - to set the temperature.
9	₽2	Setting Time to End Comfort Phase 1:
	PZ	Slider in position 7 (end time comfort phase 1): Press + or - to set the end time.
	₽ <u>3_</u> , ₩,	Setting Time and Temperature for Comfort Phase 2 and 3:
10	₽4	Slider positions 810 (comfort phase 2) and slider positions 1113 (comfort phase 3): Same procedure as above for comfort phase 1.
10	P5_, ₩, P6	
		Setting Energy Saving Temperature from Monday to Sunday:
11	1−7 ₿ ℃	Slider in position 14 (energy saving temperature in time switch programs Automatic and Exception day): Press + or - to set the temperature. Note: The energy saving temperature is valid Monday through Sunday. It does not depend on operating mode "Continuous energy saving".
		Hint: If you do not want your heating to come on at night (or anytime it is controlling to the setpoint) then set this value low e.g. 3.0 °C
12	RUN	<u>Complete Programming</u> Move the slider to RUN position and close the cover.

Operating Mode Selection

There are five operating modes as described in the table below.

Operating mode symbol descriptions

Auto	Automatic weekly mode with maximum three heating phases per day. (typical setting during winter)
\mathcal{F}_{0}	Exception day with maximum three heating phases. Enables you to program Automatic switching sequences different to usual automatic program. Ideal for long weekends.
柋	Continuous comfort mode (heater will maintain set point continuously until removed) e.g. heater will be on 24/7
\square	Continuous energy saving mode (Night time set point).
	Continuous Frost protection mode/OFF Mode (continuous frost protection, can be set between 8 °C and 3 °C, if room temperature drops below this set value the heater will turn on). To set this use the $+$ or $-$ buttons and wait until it stops flashing

Select operating mode

Press the operating mode button \bigcirc to scroll down and back up to the top in order to select one of 5 modes.

Operating modes with time program

The controller offers both time programs Automatic Real and Exception day

Do you feel too warm / too cold ?									
Press + or - to set the temperature. The setting is temporary and active only until the next time the controller activates a change.									
Note:	To set your own programs, see: "Enter customized temperatures and switching times".								
Continuous operating modes									
The contr	roller offers continuous operating modes "Continuous comfort mode"								

"Continuous energy saving mode" and frost protection mode

Do you feel too warm / too cold ?

Press + or - to set a continuous temperature.

Enter holidays or absence

You can enter start, temperature and end of your holidays. The controller switches to the set holiday temperature at the start of the holidays and back to the preset operating mode at the end of the holidays.

During holiday mode, symbol **the symbol** flashes and the end of the holidays is displayed.

Proceed as follows:

₲	Slider in position 15 (start of absence): Press $+$ or $-$ to set the starting date of the holidays.
	Slider in position 16 (temperature during absence): Press + or - to set the temperature effective during the holidays.
-	Slider in position 17 (end of absence): Press + or - to set the end date of the holidays.
RUN	Move the slider back to RUN. Symbol appears to the left of symbol \mathcal{A}_{LTO} . To quit holiday mode prematurely, press O , $+$, $-$, $\mathcal{A}_{(\mathfrak{g}^{2})}$ or move the slider.

How can I tell if my heater should be running?

When the REV Controller requires the heater to be heating you should see the A symbol on the right side of the screen.

SIEMENS

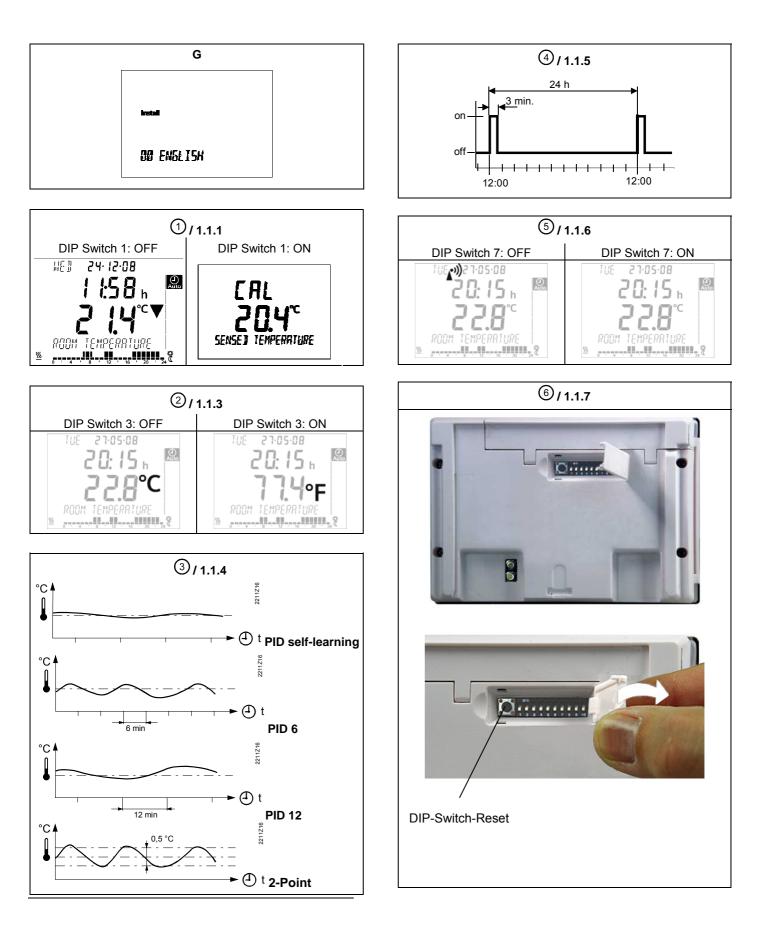
G2203



en

Installation instructions



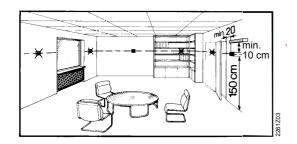




Mounting notes REV17..

1 Placement of unit

- The REV17.. should be mounted in the main living room (for wall mounting, refer to Figs. B through E)
- The REV17.. must be located such that it can acquire the room temperature as accurately as possible, without getting affected by direct solar radiation or other heat or refrigeration sources



Commissioning

1 Switching on the REV17..

 Remove the black battery transit tab (Fig. F); as soon as the tab is removed, the unit is ready to operate (also refer to operating instructions)

2 Selecting the language

 When starting up, the display shows the type of controller at top left and "THANK YOU ..." in all available languages on the text line

- 2 Mounting
- Refer to Figs. A through E

3 Checking the wiring

For electrical connections, refer to "Connection diagram".

Note: Do not use stranded wires, only solid wires or stranded wires with ferrules!

4 Notes

- The local regulations for electrical installations must be complied with
- If the reference room is equipped with thermostatic radiator valves, they must be set to their fully open position
- Press one of the buttons to stop the running display. The choice of languages starts with "ENGLISH" (factory setting). Press for a until the language you require appears. Press for a move the slider to confirm the selected language (also refer to Fig. G)

Configuration and function check REV17.

1 Configuration

1.1 DIP switches

	riangle on / $ au$ off	1	2	3	4	5	6	7			See	
See	Sensor calibration on	Δ					Δ			Periodic pump run on	1.1.5	
1.1.1	Sensor calibration off	\bigtriangledown					\bigtriangledown			Periodic pump run off		
1.1.2	Setpoint limitation 1635 °C		Δ							Quartz	1.1.6	
1.1.2	Setpoint limitation 3…35 °C		∇							Radio clock	1.1.0	
1.1.3	Temperature display °F			\triangle			When changing one or several					
1.1.0	Temperature display °C			∇			DIP	switch p	ositions, a DIP	DIP switch reset		
	PID self-learning				\triangle	\triangle			must be made by DIP switch reset		1.1.7	
1.1.4	PID 6				\triangle	\bigtriangledown		•	refer to Fig. 6)			
1.1.4	PID12				∇	Δ	Othe	rwise,	the previous			
	2-Point				∇	∇	settings will be maintained!					
		•	Facto	ory se	tting:	All DI	^{>} switc	hes $ abla$	OFF		•	

1.1.1 Sensor calibration: DIP switch 1

Set the DIP switch to ON and press the DIP switch reset button: The display shows **CAL**. The room temperature currently acquired blinks.

Press + or - to make a recalibration of max. ± 5 °C. To save the entry, set the DIP switch to OFF and press the DIP switch reset button (also refer to Fig. 0).

1.1.2 Setpoint limitation: DIP switch 2

DIP switch ON:	Setpoint limitation 1635 °C
DIP switch OFF:	Setpoint limitation 335 °C
	(factory setting)
· · · ·	

Save the entry by pressing the DIP switch reset button.

1.1.3 Temperature display in °C or °F: DIP switch 3

DIP switch ON:	Temperature display in °F
DIP switch OFF:	Temperature display in °C
	(factory setting)

Save the entry by pressing the DIP switch reset button (also refer to Fig. O).

1.1.4 Control action: DIP switches 4 and 5

DIP switch 4 ON and 5 ON: **PID self-learning** Adaptive control for all types of application.

DIP switch 4 ON and 5 OFF: **PID 6**

For fast controlled systems, applications at locations with great temperature variations.

DIP switch 4 OFF and 5 ON: **PID 12** For normal controlled systems, applications at locations with normal temperature variations.

DIP switch 4 OFF and 5 OFF: 2-Point

For difficult controlled systems, 2-position controller with a switching differential of 0.5 °C (factory setting). Save the entry by pressing the DIP switch reset button (also refer to Fig. 3).

1.1.5 Periodic pump run: DIP switch 6

Can only be used when circulating pump or valve is controlled! This function protects the pump or valve against seizing during longer off periods. Periodic pump run is activated for 3 minutes every 24 hours at 12:00 (display showing symbol \blacktriangle).

DIP switch ON:Pump run on (also refer to Fig. (4))DIP switch OFF:Pump run off (factory setting)Save the entry by pressing the DIP switch reset button.

1.1.6 Radio clock: DIP switch 7

Can only be used with REV..DC (with integrated DCF77 receiver for time signal from Frankfurt)!

DIP switch ON:

Clock runs on built-in quartz

DIP switch OFF: Time signal DCF77 from Frankfurt Save the entry by pressing the DIP switch reset button (also refer to Fig. (5)).

1.1.7 DIP switch reset

When changing one or several DIP switch positions, press the DIP switch reset button to make a DIP switch reset.

Otherwise, the previous settings will be maintained!

(Also refer to Fig. 6).

2 Accessing the expert level

Move the selector slider to the RUN position and press simultaneously + and - for 3 seconds, then release the buttons and, within 3 seconds, press simultaneously \bigcirc and $\stackrel{\circ}{\textcircled{CT}}$ for 3 seconds, release $\stackrel{\circ}{\textcircled{CT}}$ and keep \bigcirc depressed for another 3 seconds. This enables you to access the expert level for making the settings on that level. **Install** on display (also refer to Fig. G).

Starting with code 00, the display shows the choice of languages. Navigation on the expert level is made possible with + and - Confirm the settings by pressing ?.

The expert level is quit by pressing the operating mode selection button \bigcirc .

Code list

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

Note 1:

If the radio clock is not active or not present, this setting has no impact.

With the radio clock active, the time signal received from Frankfurt is shifted by the value set under code 30 (time zone). Note 2:

If the radio clock is not active or not present, the time change always takes place at 02:00 on the Sunday before the set date. With the radio clock active, the time change is shifted by the value set under code 30 (time zone).

Note 3:

If the radio clock is not active or not present, the time change always takes place at 03:00 on the Sunday before the set date. With the radio clock active, the time change is shifted by the value set under code 30 (time zone).

3 Function check

- a) Check the display. If there is no display, check the batteries
- b) "Continuously Comfort mode" k read the temperature displayed
- c) Set the temperature setpoint to a level above the displayed room temperature (see operating instructions)
- d) The relay and thus the actuating device must respond within 1 minute. Symbol ▲ appears on the display. If not:
 - Check actuating device and wiring
 - The room temperature is possibly higher than the adjusted temperature setpoint
- e) Set temperature setpoint of "Continuously Comfort mode" 🔅 to the required level
- f) Select the required operating mode

4 Reset

User-defined settings:

Press simultaneously \bigcirc , \checkmark and \frown for 3 seconds:

All temperature and time settings of the slider positions are reset to their default values (refer to section "Factory settings" in the operating instructions). The settings made on the expert level will remain unchanged.

The clock starts at 12:00, the date on 01-01-08 (01 - January - 2008). During the reset time, all sectors of the display are illuminated and can thus be checked.

All user-defined settings plus those made on the expert level:

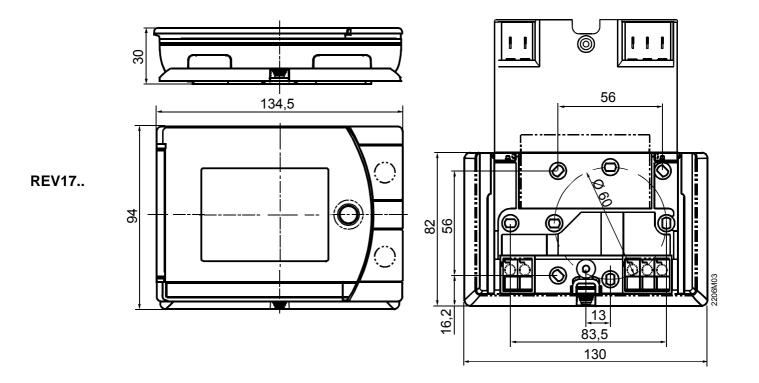
Press simultaneously the DIP switch reset button, + and - for 5 seconds:

After this reset, **all factory settings** will be reloaded. This applies to both the slider settings and the settings made on the expert level.

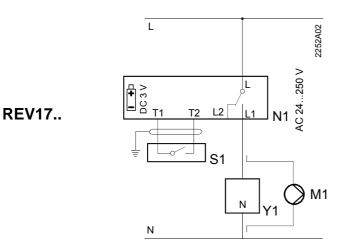
Notes

 The controller is classified as a device of software class A and designed for use in environments with normal degree of pollution

Dimensions



Connection diagram



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- L Live, AC 230 V
- Lx Live, AC 24 ... 250 V
- L1 N.O. contact, AC 24 ... 250 V / 6 (2,5) A
- L2 N.C. contact,
- AC 24 ... 250 V / 6 (2,5) A
- M1 Circulating pump
- N Neutral conductor
- T1 Signal <remote operation>
- T2 Signal <remote operation>
- N1 Room temperature controller REV17..
- S1 Remote operation unit (potentialfree)
- Y1 Actuating device