



Digital Room Thermostat for Heating Applications with 7-Day Time Program

CONFORT
CRONO

(RDE100.1-EQ*)

*Siemens internal model name

Two-position control with ON / OFF relay output for heating
Operating modes: comfort and energy saving mode
7 day time program and manual operation
Holiday mode
Keypad lock
Periodic pump run and anti-lime function
Battery-powered (2 AAA Alkaline batteries)

Use

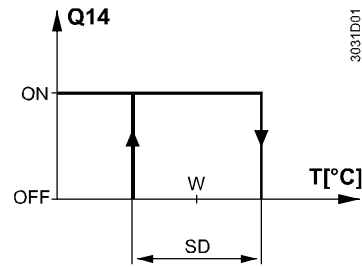
The CONFORT CRONO is used for the control of the room temperature in heating systems.

For the control of the following pieces of equipment:

- Wall hung boilers
- Thermic valves or zone valves
- Gas or oil burners
- Fans
- Pumps

Function

The thermostat acquires the room temperature with its integrated sensor and maintains the setpoint by delivering control commands. The switching differential is 1 K.



- T Room temperature
- SD Switching differential
- W Room temperature setpoint
- Q14 Output signal for heating

Operating modes

The CONFORT CRONO provides comfort mode and, optionally, energy saving mode. The difference between comfort and energy saving mode is only the room temperature setpoint. The changeover between the operating modes can be made either automatically according to the 7-day time patterns or manually with the operating mode button.

Comfort mode

When comfort mode is activated, symbol appears on the display. The setpoint can be readjusted by pressing buttons '+' and '-'.

Energy saving mode

When energy saving mode is activated, symbol appears on the display. The setpoint can be readjusted by pressing buttons '+' and '-'.

7-day time program

The changeover between the operating modes can take place either automatically or manually (,) depending on the activated operating mode. When the activated operating mode is in , changeover will take place automatically according to the selected switching pattern. For every weekday, a specific factory default setting (to be confirmed):

Day(s)	Comfort mode	Energy saving mode
Mon (1) – Fri (5)	7:00 – 9:00 hr and 17:00 – 22:00 hr	22:00 – 7:00 hr and 09:00 – 17:00 hr
Sat (6) – Sun (7)	7:00 – 22:00 hr	22:00 – 7:00 hr

The current setpoint can be temporarily readjusted by pressing buttons "+" and "-". The setpoint will then be reset to its initial value the next time automatic or manual changeover takes place.

When the operating mode is set to or , the CONFORT CRONO will maintain comfort mode or energy savings mode respectively.


Holiday mode

When holiday mode is activated, symbol appears on the display. The countdown days in holiday mode can be adjusted by pressing "+" and "-" from 0 to 365 days. The holiday mode setpoint can be adjusted.

Keypad lock

Press and hold for operating mode button for 7 seconds and this will activate the keypad lock .

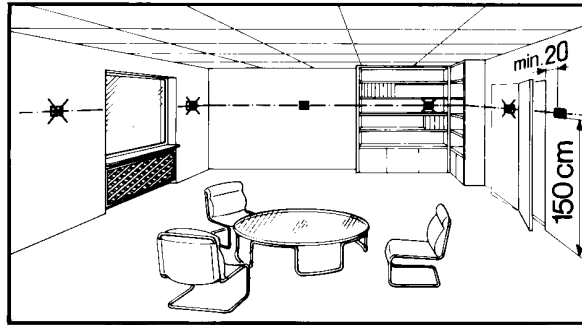
Periodic pump run and anti-lime function

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). This function can be enabled and disabled by means of a parameter.

Notes

The room thermostat should be mounted in a location where the air temperature can be measured as accurately as possible without getting adversely affected by direct solar radiation or other heat or refrigeration sources.

Mounting height is about 1.5 m above the floor.



The unit can be fitted to a recessed conduit box or directly on the wall.

Mounting, installation and commissioning

When mounting the unit, fix the baseplate first. Then, make the electrical connections and fit and secure the cover (also refer to separate Mounting Instructions).

The thermostat must be mounted on a flat wall and in compliance with local regulations.

If there are thermostatic radiator valves in the reference room, they must be set to their fully open position.

Maintenance

The thermostat is maintenance-free.

Change of batteries

Before the batteries are exhausted, the symbol for changing the batteries appears. In that case, there are 5 days left to change the batteries.

Disposal



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.

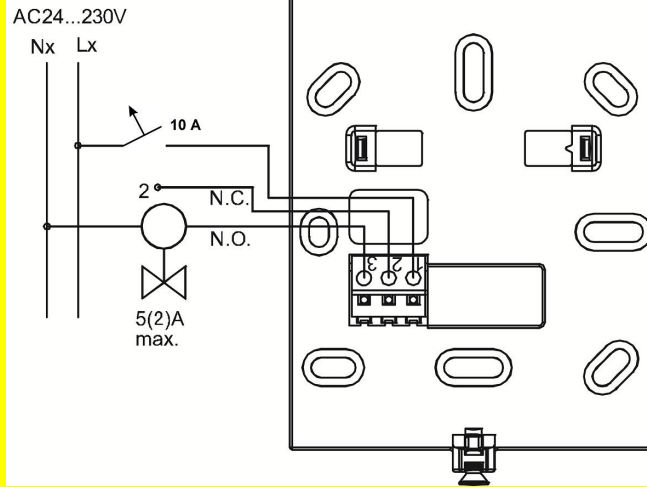
- Dispose of the device via the channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.
- Dispose of empty batteries at designated collection points.

Technical data

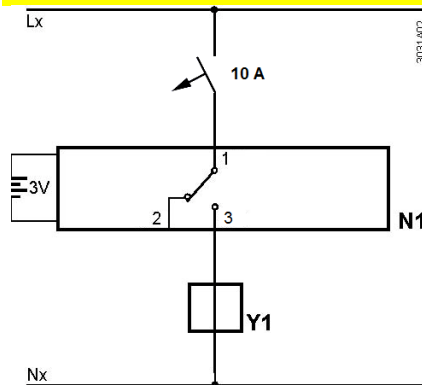
Power supply	Operating voltage	DC 3 V (2 x 1.5 V AAA Alkaline batteries)	
	Battery life	> 1 year (AAA Alkaline batteries)	
Control outputs	Control output No. 2 (N.C. contact) (AC 24...230 V)	Max. 5(2) A	
	Control output No. 3 (N.O. contact) (AC 24...230 V)	Max. 5(2) A	
	External protection for incoming cable	Max. 10 A	
	Circuit breaker		
	Circuit breaker tripping characteristic	Type B, C or D to EN 60898 and EN 60947	
Functional data	Switching differential SD	1 K	
	Setpoint setting range	4...35 °C (comfort mode)	
		4...35 °C (energy saving mode)	
		4...35 °C (holiday mode)	
	Increments	0.5 °C	
	Factory setting comfort mode	20 °C	
	Factory setting energy saving mode	16 °C	
	Factory setting holiday mode	12 °C	
	Resolution of settings and displays	Setpoint	0.5 °C
		Switching times	15 min
		Actual value displays	0.5 °C
		Time of day displays	1 min
	Standards	EU Conformity (CE)	8000078267
		Safety class	II to EN 60730
Pollution degree		2	
Degree of protection of housing		IP30 to EN 60529	
Operation		IEC 60721-3	
Climatic conditions		Class 3K3	
Temperature		0...+45°C	
Humidity		< 85% r.h.	
Storage and transport		IEC 60721-3	
Climatic conditions		Class 2K3	
Temperature	-25...+70°C		
Humidity	< 93% r.h.		
Mechanical conditions	Class 2M2		
Electrical connections	Connection terminals	Screw terminals	
	For solid wires	2 x 1.5 mm ²	
	For stranded wires	1 x 2.5 mm ²	

Connection diagram

CONFORT CRONO (RDE100.1-EQ)



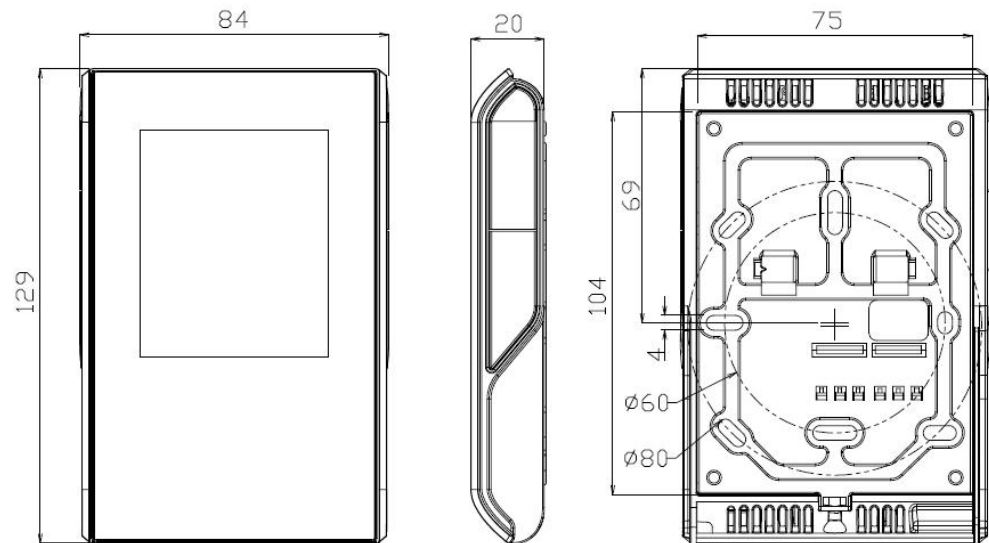
- 1, 2 N.C. contact (for N.O. valves)
- 1, 3 N.O. contact (for N.C. valves)
- Lx AC 24...230V
- Nx Neutral



- N1 Thermostat (RDE100.1-EQ)
- Lx AC 24...230V
- Nx Neutral
- Y1 Actuating device
- 1, 2 N.C. contact (for N.O. valves)
- 1, 3 N.O. contact (for N.C. valves)

Dimensions

Thermostat



Packaging

Product	Equation model #	Equation EAN13 #	Blister	Packaging box
Room thermostat with time program	CONFORT CRONO (RDE100.1-EQ)	3351840220453	1 CONFORT CRONO 1 multi-language mounting and 6 language operating instructions	6 units