USER MANUAL

Type MCC2/MCD2

57583 08/06 - (BJ)

Product program

This user manual covers following electronic thermostats MCC2-1991-UA. Incl. floor sensor 3m MCC2-1999-UA. With built-in room sensor MCD2-1999-UA. With 2 sensors; built-in room sensor and incl. floor sensor 3m

Introduction

The thermostat is capable of switching on your heating system at pre determined times on different days of the week. It is possible to set 4 periods called events each day with different temperatures. From factory a default schedule is programmed suitable for most installations. Unless you change these settings the thermostat will operate to this default program.

Working with lower temperatures during times that the room is unoccupied will lower your energy costs without reducing the comfort. The thermostat has an adaptive function that automatically changes the start time of a heating period so that the desired temperature is reached at the time that you set. After 3 days the adaptive function has learned when the heating must be switched on.

Type MCC2-1991-UA has an external temperature sensor that is normally placed in the floor construction. In this configuration the thermostat controls the temperature of the floor and not the temperature within the room.

Type MCC2-1999-UA has a built-in temperature sensor. In this configuration the thermostat controls the temperature of the room.

Type MCD2-1999-UA has a built-in temperature sensor and an externally temperature sensor. In this configuration the thermostat

controls the temperature within the room and use the externally temperature sensor as limit sensor avoiding to high or to low temperatures in the floor construction.

The thermostat has a pin button marked R, allowing you to reset the thermostat to factory settings. These are listed at the end of this manual with space for you to record your own weekly schedule.

The display is backlit when operating the buttons. The heating element is switched off when the light is on in the display

The heating system can be switched off on the built-in interrupter. The Microprocessor taking care of the time will still be supplied with power whereby time and day will be maintained. When the heating is required and the thermostat is switched on, it will continue the 4-event programme based on present time and day.

1. Getting started





A: 🕑	B:	C: [•] R	D: 🗸
Pin button adjust of clock	On/off	Reset to factory setting	Adjustment down
E: √	F: 🛆	G:	
OK - accept	Adjustment up	Display	

Display symbols

H:	1:	J:	K:
Clock function	Manual mode	Time and temperature	Day number

L:	M:	N:	
Heating on	%	4-event symbol	
	Monitoring	🔆 Wake 🏠 Out	
	time		

Setting the thermostat into operation

First tir adjust and da	First time power is connected the clock and day will be flashing and must be adjust the time of the thermostat at a later date, insert a pin into the hole \mathfrak{G} f and day. Adjustment must be made for summer and winter time.				
© 1234500	☞△▽✓	Press the UP (\triangle) or DOWN (\bigtriangledown) buttons to select the correct time and press OK button (\checkmark).			
© 9:43 1234500	☞△▽✓	Then press the UP (\triangle) or DOWN (∇) button to select the correct day and press OK (\checkmark) button.	1-7		

2. Daily use of the thermostat

4-event clock mode

The day has been split into 4 events describing a typical day. When the thermostat is in 4-event mode it will automatically adjust the temperature according to the required temperature to the required time. As standard the thermostat has 5 days with 4 events, and 2 days with 2 events. Programming see 3.



4-event clock mode:	©≉ ₁30	The clock function symbol () and one of the 4-event symbols (☆ ᠬ ᠬ () will be indicated. Programming see 3.	
Comfort mode: \mathbb{R} $\bigtriangleup \nabla \mathbb{Z}$ 5 secs.	© û• ⊎ ≀2:08 2	Temporary override To temporarily override the temperature in the 4-event schedule program, press the UP (\triangle) or DOWN (∇) button once, to show the temperature, and press again to increase or decrease the temperature. The display will flash for 5 seconds, and will then revert to the time. The override will operate until the next programmed event when the unit will resume the automatic programme.	
$\mathbb{R} \setminus \bigwedge$	© û• (2:08 2	Cancel comfort mode To cancel the override state, press the OK (\checkmark) button twice.	
Manual mode: IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	₩ 21.0C	Permanent override: During holidays, the scheduled 4-event program can be overridden. Press the OK (\checkmark) button, and then the UP (\triangle) or DOWN (∇) button until the override temperature is set. The unit will now operate to this temperature permanently.	
r≊ √	© û (2:08 2	Cancel manual mode To cancel the permanent override state press the OK (\checkmark) button once, and the unit will resume automatic function.	

3. Programming 4-event time and temperature

For each event, the start time and required temperature must be set.

For example, in the morning you wish the heating to start at 07:00 and the temperature to rise to 25°C. Press OK (\checkmark) button for 3 seconds and the start time is displayed. Change this to 07:00 with the UP (\triangle) or DOWN (∇) button. Press OK (\checkmark) to confirm.

The temperature is now displayed. Change this to 25°C with the UP (\triangle) or DOWN (\triangledown) button. Press OK (\checkmark) button to confirm. This action can now be repeated for the second event.

These settings will be valid with days 1-5 showing on the display. To program the days 6 and 7, repeat the above. Days 6 and 7 are usually Saturday and Sunday, and only have two events.

The temperature can be set within the range of +5 to +40°C. It is also possible to select the heating OFF at that event by reducing the setting to 5°C, and then pressing the (∇) once more.

Press OK (\checkmark) button for 3 secs. to begin programming			
Day 1 - 5			
★ ★ 5:00 Ei ○ △ ▽ √ 2101- 12345	i : Time and temperature		
$ \begin{array}{ c c c } \hline \mathbf{\hat{h}} & & & & & & & \\ \hline & & & & & \\ \hline & & & &$			
	û∙: Time and temperature		
$ \begin{array}{c} 0\\ 2\overrightarrow{2345} \end{array} \text{eff} \ \ \ \ \ \ \ \ \ \ \ \ \ $	(: Time and temperature		
Day 6 - 7			
	🔆 : Time and temperature		
	(: Time and temperature		

4. Advanced settings and read-out



to be continued ...

4. Advanced settings and read-out - continued



5. Reset to factory setting

• R Press the pin button and the thermostat returns to factory settings. Time and day is also reset and must be set according to "Setting the thermostat into operation".

Note that a MCD2 that has been modified to a MCC2 (see 4. Advanced settings and read-out, selection of type) will return to a MCD2. Failure code E2 will be displayed if the external sensor has been removed.

Factory settings

4-event time and temperature				
Day 1-5	Time		Temperature	
			MCC2	MCD2
☆	06:00		25°C	20°C
Û +	08:00		20°C	15°C
⊡ ∢	16:00		27°C	22°C
C	22:30		20°C	15°C
Day 6-7				
*	08:00		27°C	22°C
C	23:00		20°C	15°C
Hi-Low temp.			55°C/5°C	28°C/15°C
4-event sequence	5:2			
Scale	24 H / °C		1	
Adaptive control	ON			

6. Failure codes

E0 = Internal failure, replace thermostat

E1 = Built-in sensor short-circuit or disconnected, replace thermostat

E2 = External sensor short-circuit or disconnected

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