



Touch Screen Programmable Room Thermostat

Installation and User Manual



Safety Instruction

Installation and mounting of electrical appliances must be carried out only by skilled electricians. It is imperative to observe the generally applicable safety measures, such as:

Before starting work on the appliance, switch off power supply and secure against switching on.

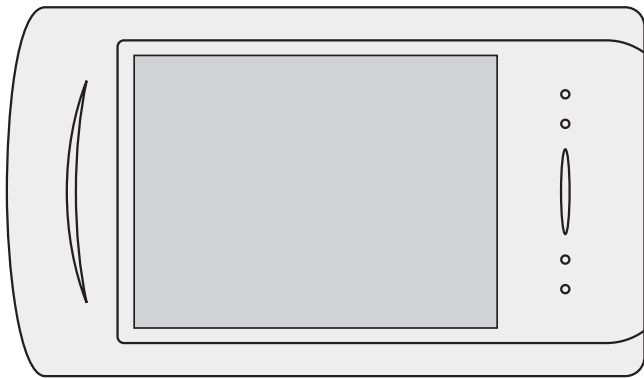
Positioning

The room thermostat should be positioned away from direct sunlight or heat producing appliances. It is recommended that the thermostat is installed 1.2 metres above floor level.

Installation

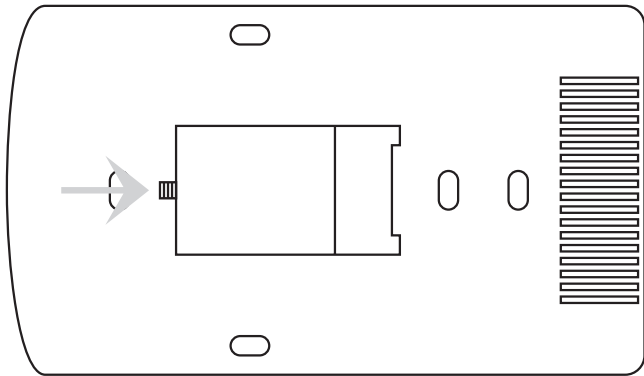
Step 1:

Open front and rear case with screwdriver, then take off the front case



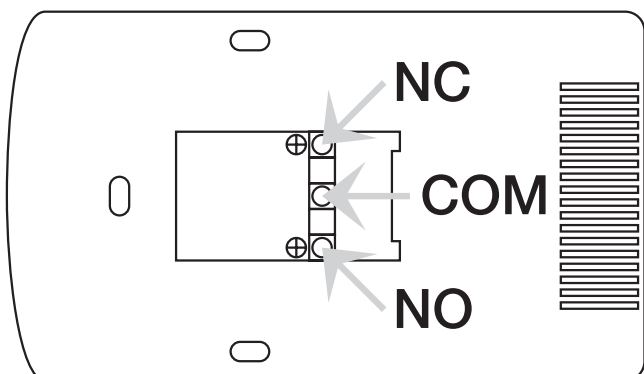
Step 2:

Open relay case with screwdriver and take off the relay case



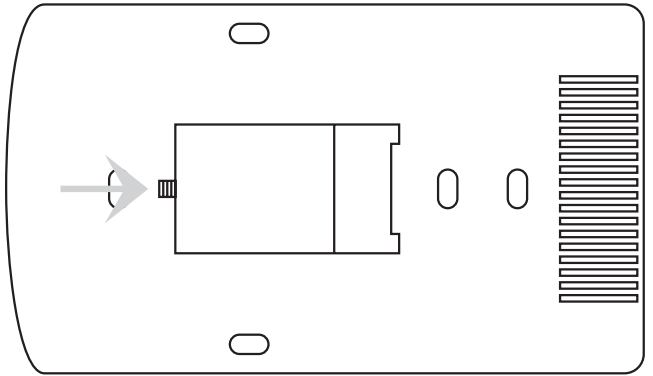
Step 3:

Connect all wires properly (See page 2)



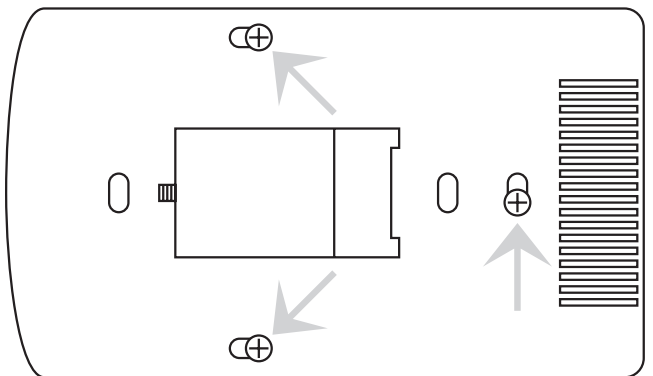
Step 4:

Cover the relay case and screw it properly with screwdriver



Step 5:

Mount and fix rear case with screws in wall



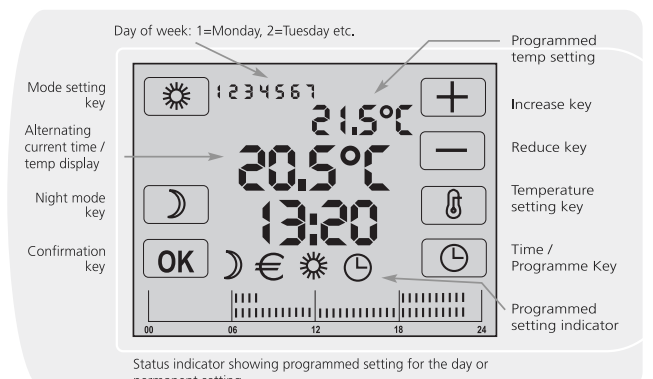
Step 6:

Put 2 x 1.5v AA batteries into battery box observing polarity

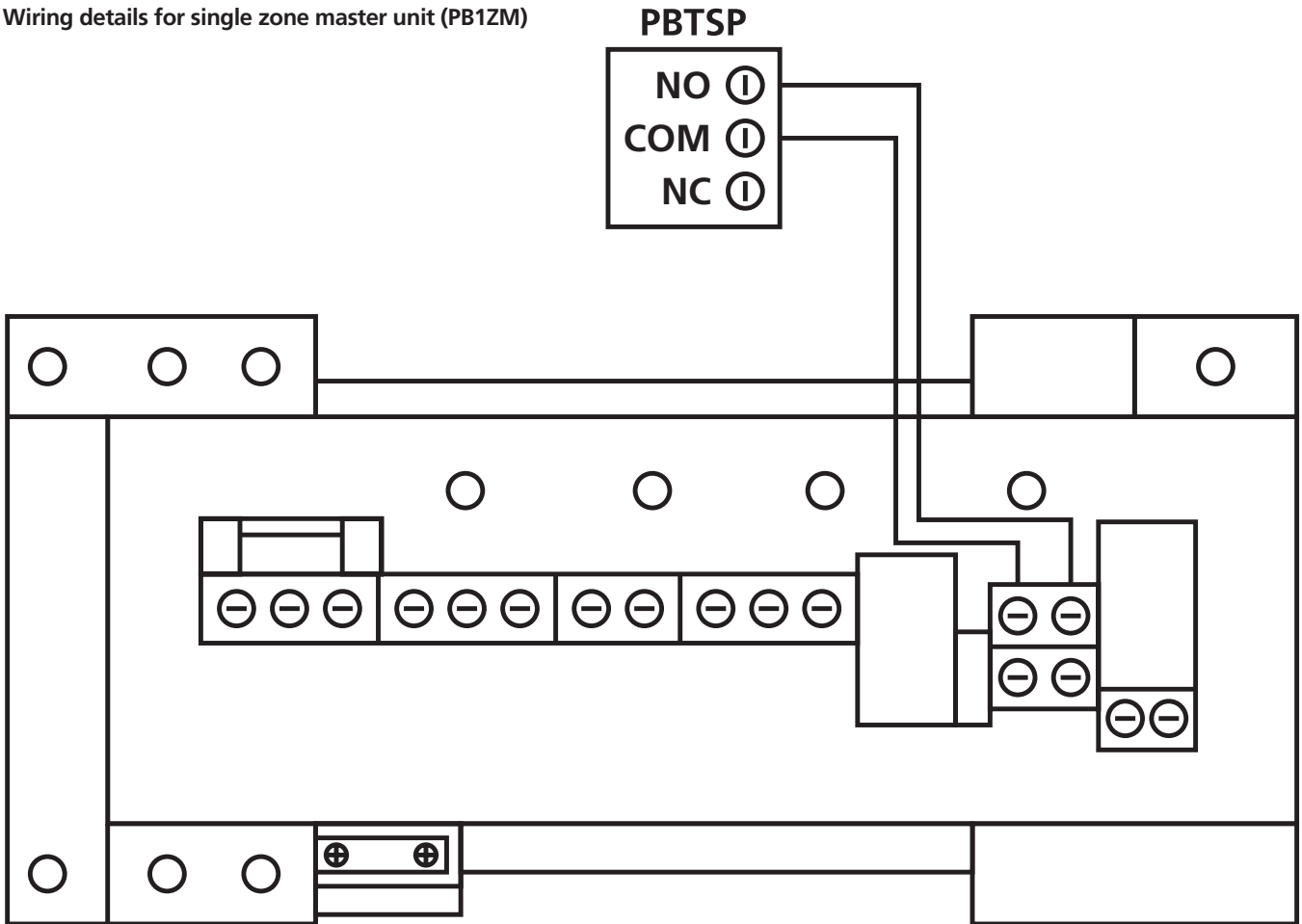


Step 7:

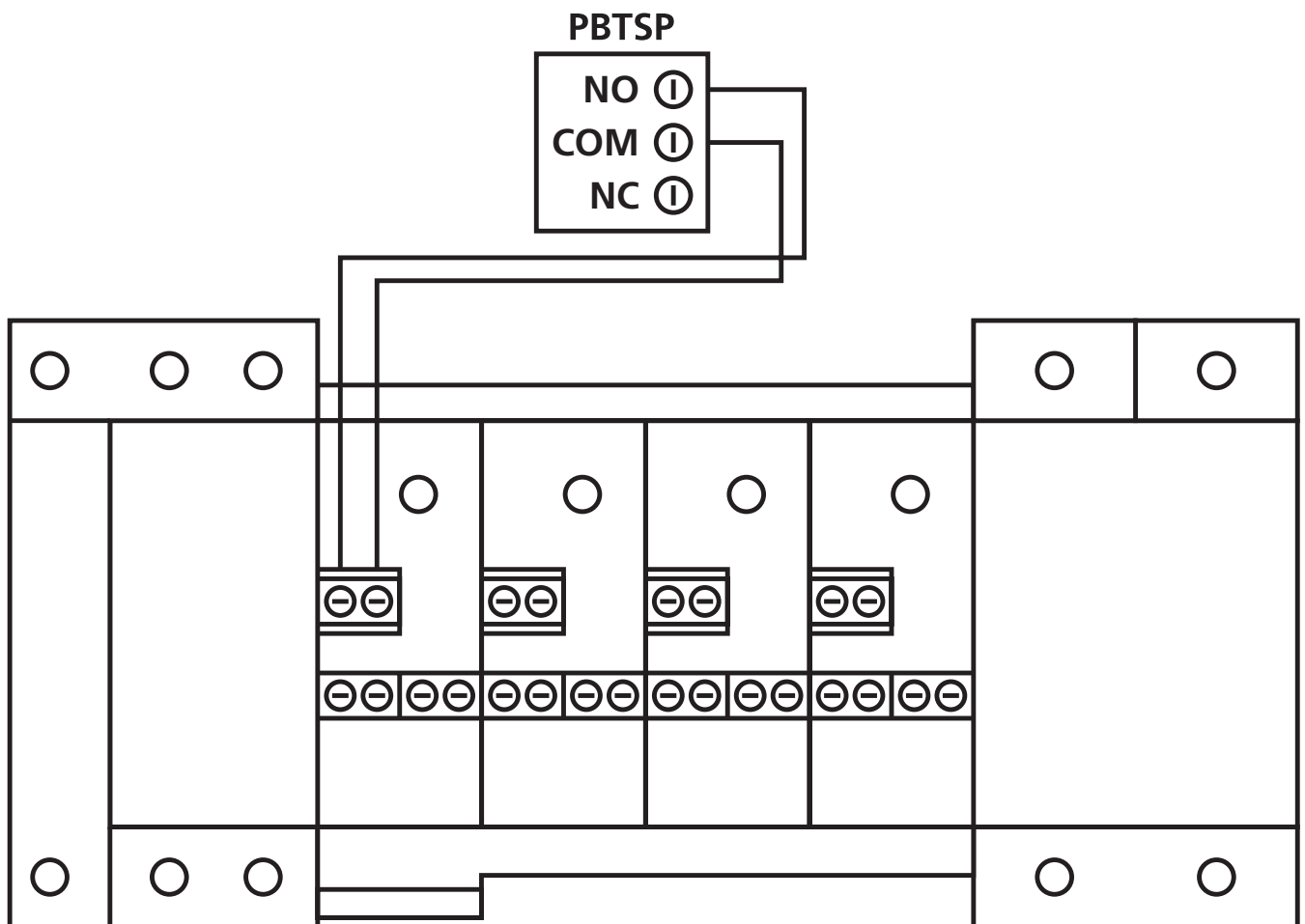
Cover front and rear case correctly



Wiring details for single zone master unit (PB1ZM)

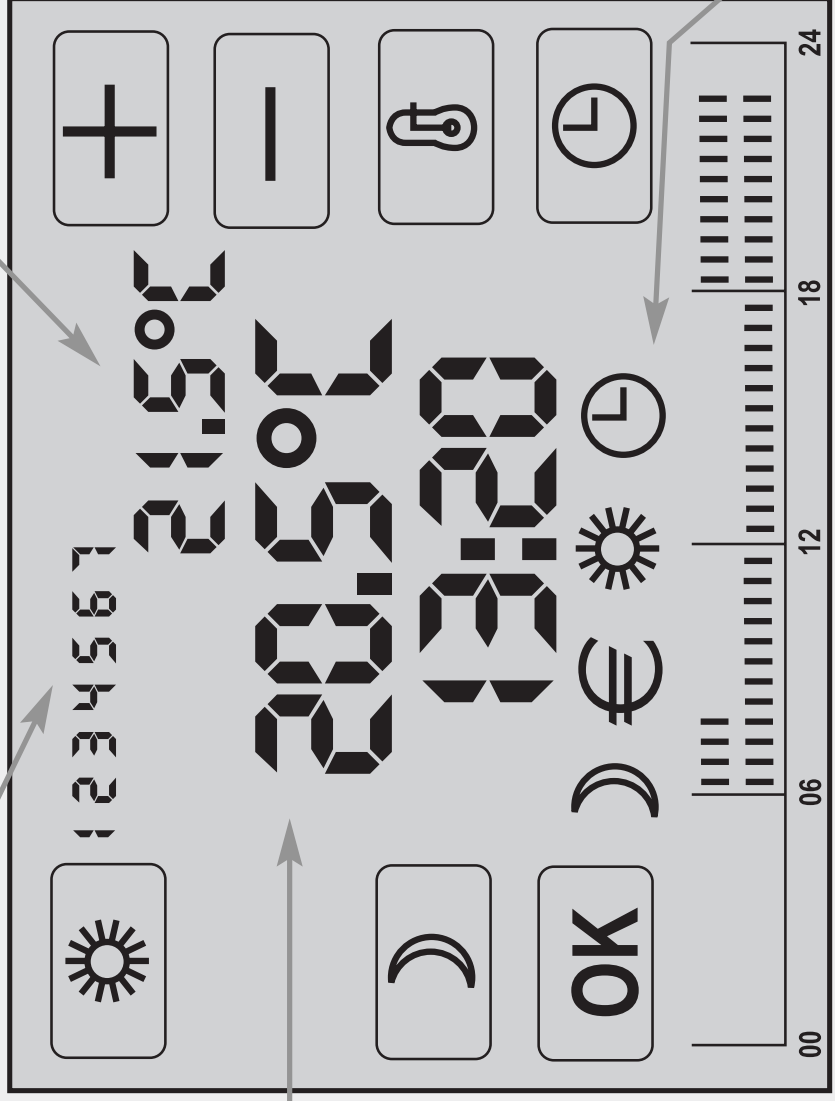


Wiring details for 4 zone and 6 zone slave (PB4ZS and PB6ZS)



Day of week: 1=Monday, 2=Tuesday etc.

Programmed temp setting
 Increase key
 Reduce key
 Temperature setting key
 Time / Programme Key
 Programmed setting indicator




Mode setting key
 Alternating current time / temp display
 Night mode key
 Confirmation key

Status indicator showing programmed setting for the day or permanent setting

- No bars = Night time setting
- 1 bar = Economy setting
- 2 bars = Comfort setting







Time Setting

- a) Press the  key to flash the following in order:
Year, Month, Day, Hour, Minute.
Use the + or – key to adjust each
- b) Press OK when complete to confirm exit
- Note: The internal calendar will calculate the correct day of the week (1=Monday etc.)
- Note: The time will change automatically to adjust BST and GMT on the correct date.






Temperature Setting

- There are 3 temperature settings available:
Comfort  used when room is permanently occupied e.g. 21°C
Economy  used when room is temporarily occupied e.g. 18°C
Night  used when the room is unoccupied e.g. 15°C
- a) Press the  key to flash the following in order:
Comfort, Economy, Night. Use the + or – key to adjust each
- b) Press OK when complete to confirm exit.



Mode Setting

- a) Press the  key to select the following:
Automatic (programme mode). The display will also show the current temperature at that time e.g.  or 
Continuous operating at comfort temperature
Continuous operating at economy temperature
Continuous operating at night temperature
Continuous operating at frost protection setting (+7°C)

Quick Set Up






- To enable quick set up of the Thermostat, there is a pre-installed programme. Simply enter the year, date and time. Then switch to Auto.
- The programme for each day will be as follows:
- | | | |
|------------------------|-----------------|-------------|
| 6.00 a.m. - 8.00 a.m. | Comfort setting | Set at 21°C |
| 8.00 a.m. - 6.00 p.m. | Economy setting | Set at 18°C |
| 6.00 p.m. - 11.00 a.m. | Comfort setting | Set at 21°C |
| 11.00 a.m. - 8.00 a.m. | Night setting | Set at 15°C |
- To change any of the temperatures for these times see Temperature Setting Instructions. To enter different heating times for each day proceed to Programme Setting Instructions.




Programme Setting

There are three different kinds of programme during the automatic mode. That is: Daily programme (different programme for each day of a week), 5/2 programme (the same programme for Monday (1) - Friday (2) and the same programme for Saturday (6) - Sunday (7)), Weekly programme (the same programme for each day of a week).


Daily Programme

- a) Press and hold  key for 3 seconds to flash the day (1-7)
- b) Press + or – key to set the day which you want to programme
- c) After setting the day/days, press  key to flash time 0:00 and the corresponding bar dot for programme is flashing
- d) Press  key to enter into energy saving mode; press key to enter into comfort (sun) mode; press  key to enter into night (moon) mode
- e) Press + or – key to adjust time. Repeat step d) and e) if you want to change the programmed level temperature
- f) When you finish setting one day programme, press  to flash day
- g) Set the rest days' programme of a week as above operation from step b) to step f), after finishing all settings, press OK to confirm and exit, or exit automatically in 1 minute (after 15 seconds the display will switch off).





5/2 Programme

- a) Press and hold  key for 3 seconds to flash date
- b) Press + or – key to select days from 1 to 5 (these days are flashing)
- c) Set the programme for Monday-Friday and Saturday-Sunday by using the same way as Daily Programme A operation

Weekly Programme


- a) Press and hold  key for 3 seconds to flash date
- b) Press the + or – key to select days from 1 to 5 (these days are flashing)
- c) Set the programme by using the same method as Daily Programme operation.

Copy Function



- a) Press and hold  key for 3 seconds to flash day and enter into COPY mode when you are in automatic mode  The day and COPY are flashing
- b) Press the + or – key to choose the programme of target day which you want to copy from
- c) Press the  key again to stop flashing COPY (the programme is memorised)
- d) Press + or – key to choose the day which you want to copy the programme to
- e) Press the  key again, the programme has been downloaded
- f) In the same way to copy and download programme to the rest days, after finishing all programmes, press OK to confirm and exit, or exit automatically in 1 minute (after 15 seconds the display will switch off).

Manual Override Function






During the automatic mode  you can have the override function




Temporary override (Party)

- Press + or – key to adjust override temperature: the symbol  indicator will appear on the display
- After setting the temperature, press OK key to confirm and exit, or exit automatically in 1 minute (after 15 seconds the display will switch off). The manual setting temperature and  will be kept until entering next setting programme or when pressing OK key




Hold hours

- Press + or – key to adjust override temperature: the symbol  indicator will appear on the display
- Press  key once to display 1H and  indicator
- Press + or – key to set holding time from 1 hour to 24 hours
- Press OK key to confirm and exit, or exit automatically in 1 minute (after 15 seconds the display will switch off). The number of hours and the override temperature are flashing alternately on the top right side of the display. Press OK to exit from the override function.

Hold Days (Holiday)






- Press + or – key to adjust override temperature: the symbol  indicator will appear on the display
- Press  key twice to display 1d and  indicator
- Press OK key to confirm and exit, or exit automatically in 1 minute (after 15 seconds the display will switch off). The number of hours and the override temperature are flashing alternately on the top right side of the display. Press OK for exit from the override function.

Hold Long Period Running





- Press + or – key to adjust override temperature: the symbol  indicator will appear on the display
- Press  key three times and will display 
- Press OK key to confirm and exit, or exit automatically in 1 minute (after 15 seconds the display will switch off). The temperature will be kept until manually pressing OK key.

Alarm Setting




- Press and hold  key for 3 seconds to display AL
- Then press  key once to display  on the top left. Press + or – key to select the days (1-5, 6-7, 1-7)
- Press  key once to flash hour. Press + or – key to set hours of alarm clock
- Press  key once again to flash minute. Press + or – key to set minutes of alarm clock
- Press OK to confirm. After finishing the setting time, buzzer ring BI-BI for 30 seconds to the programmed time. Press OK key to turn off the alarm clock in the midway.

To Cancel Alarm

- Press and hold  key for 3 seconds to display 
- Then press  and  will disappear, press OK key to confirm and cancel alarm or exit automatically (after 15 seconds the display will switch off).

Low Battery Indicator



When low battery occurs the  symbol will appear on the display. Change the batteries in a few minutes and the programme, temperatures and date setting will remain in memory, you only need to reset the time clock (hours and minutes)

Key Lockout Function



Hold OK key for 3 seconds to display OK only, all keys will be locked out. To unlock the keys, hold the OK key for 3 seconds to restore the display of the keys. Use this function when for example you need to clean the display.

Technical Data

Dimension H x L x W (mm)	87 x 135 x 32
Operating voltage 2 batteries	1.5v LR6/AA
Temperature control range	+5°C / +35°C
Temperature display range	+5°C / +37°C
Switching capacity (changeover contact)	
at ohmic loads	max 6a 240v 50hz
at inductive loads cos w = 0.6	max 2a 240v 50hz
Switching output	Floating
Function modes	Heat / Cool
Anti-frost	+7°C
Ambient temperature	-5°C / +45°C
Programming	Daily, Weekly and 5/2
Class of protection	II
Index of protection	IP20
Displayed temperature update	10s
Reading accuracy	+/-1°C at 20°C
Reading resolution	+/-0.1°C
Swing	0.2°C
Comply with EMC and LV directives	
LVD: EN60730-1, EN60730-2-7, EN 60730-2-9	
EMC: EN 55014-1, EN 55014-2, EN 61000-3-2, EN61000-3-3	
Subject to technical modifications	

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