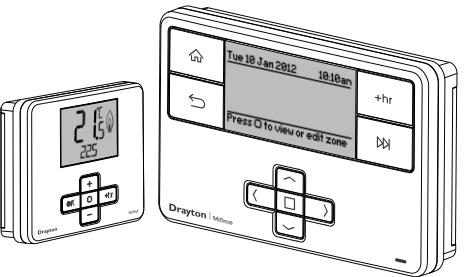


MiTime™ Programmer Series
RF Packs

Single Channel: MiTime T710R
Dual Channel: MiTime T720R, T720M
Multi Channel: MiTime T740R, T 740M



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User Guide 06490193001 Iss F



HOMEOWNER Guide

What is a room thermostat?

... an explanation for householders

A room thermostat simply switches the heating system on and off as necessary. It works by sensing the air temperature, switching on the heating when the air temperature falls below the thermostat setting, and switching it off once this set temperature has been reached.

Turning a room thermostat to a higher setting will not make the room heat up any faster. How quickly the room heats up depends on the design of the heating system, for example, the size of boiler and radiators.

Neither does the setting affect how quickly the room cools down. Turning a room thermostat to a lower setting will result in the room being controlled at a lower temperature, and saves energy.

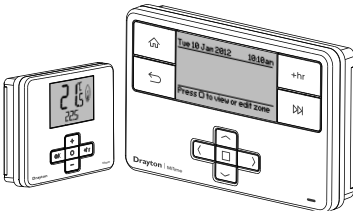
The heating system will not work if a time switch or programmer has switched it off.

The way to set and use your room thermostat is to find the lowest temperature setting that you are comfortable with, and then leave it alone to do its job. The best way to do this is to set the room thermostat to a low temperature – say 18°C – and then turn it up by one degree each day until you are comfortable with the temperature. You won't have to adjust the thermostat further. Any adjustment above this setting will waste energy and cost you more money.

If your heating system is a boiler with radiators, there will usually be only one room thermostat to control the whole house. But you can have different temperatures in individual rooms by installing thermostatic radiator valves (TRVs) on individual radiators. If you don't have TRVs, you should choose a temperature that is reasonable for the whole house. If you do have TRVs, you can choose a slightly higher setting to make sure that even the coldest room is comfortable, then prevent any overheating in other rooms by adjusting the TRVs.

Room thermostats need a free flow of air to sense the temperature, so they must not be covered by curtains or blocked by furniture. Nearby electric fires, televisions, wall or table lamps may prevent the thermostat from working properly.

HOMEOWNER Guide



What is a programmer?

... an explanation for householders

Programmers allow you to set 'On' and 'Off' time periods. Some models switch the central heating and domestic hot water on and off at the same time, while others allow the domestic hot water and heating to come on and go off at different times.

Set the 'On' and 'Off' time periods to suit your own lifestyle. On some programmers you must also set whether you want the heating and hot water to run continuously, run under the chosen 'On' and 'Off' heating periods, or be permanently off.

The time on the programmer must be correct. Some types have to be adjusted in spring and autumn at the changes between Greenwich Mean Time and British Summer Time.

You may be able to temporarily adjust the heating programme, for example, 'Override', 'Advance' or 'Boost'. These are explained in the manufacturer's instructions.

The heating will not work if the room thermostat has switched the heating off. Also, if you have a hot-water cylinder, the water heating will not work if the cylinder thermostat detects that the hot water has reached the correct temperature.



What is a cylinder thermostat?

... an explanation for householders

A cylinder thermostat switches on and off the heat supply from the boiler to the hot-water cylinder. It works by sensing the temperature of the water inside the cylinder, switching on the water heating when the temperature falls below the thermostat setting, and switching it off once this set temperature has been reached.

Turning a cylinder thermostat to a higher setting will not make the water heat up any faster. How quickly the water heats up depends on the design of the heating system, for example, the size of boiler and the heat exchanger inside the cylinder.

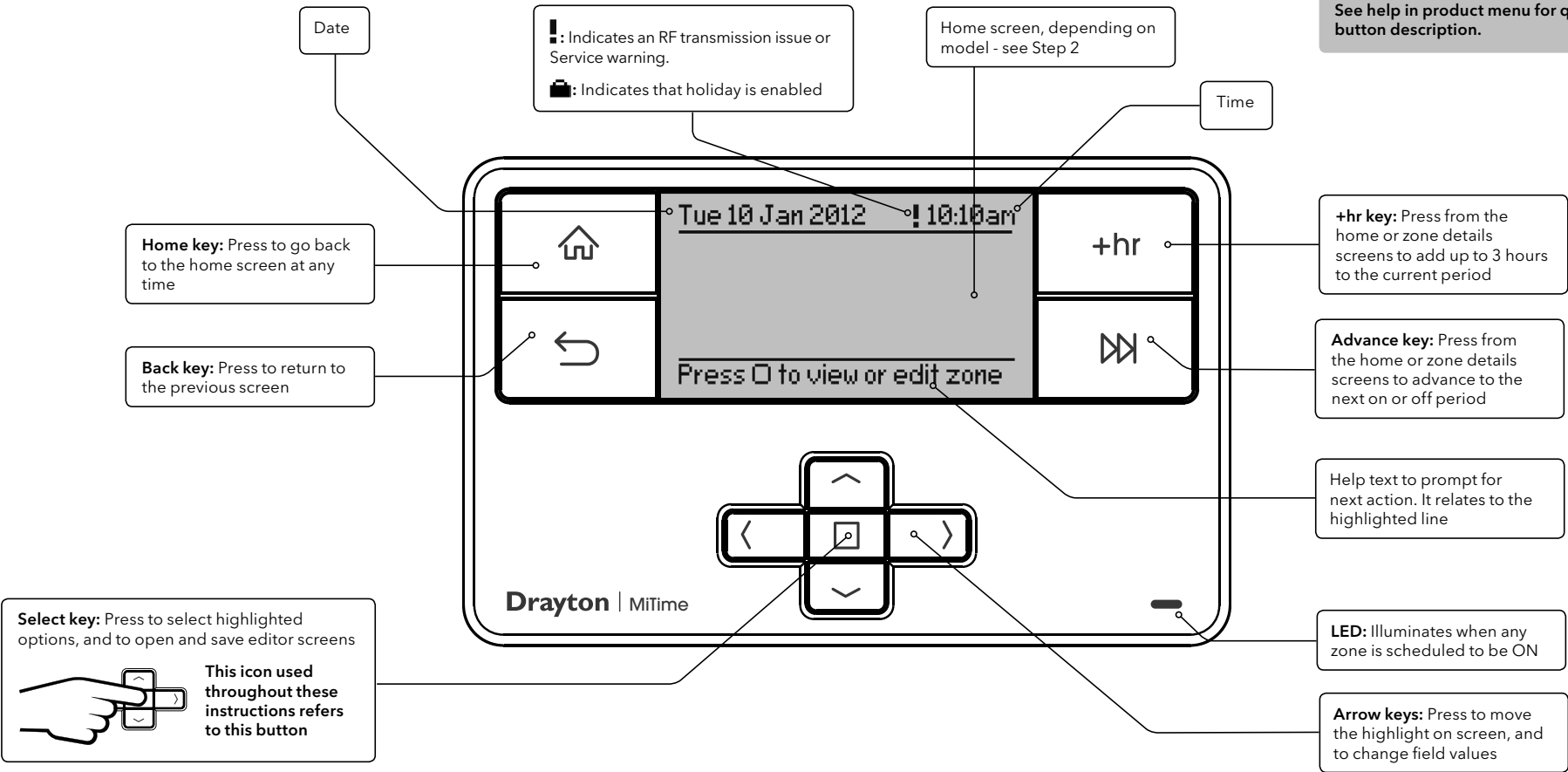
The water heating will not work if a time switch or programmer has switched it off. And the cylinder thermostat will not always switch the boiler off, because the boiler sometimes needs to heat the radiators.

Cylinder thermostats are usually fitted between one quarter and one third of the way up the cylinder. The cylinder thermostat will have a temperature scale marked on it, and it should be set at between 60C and 65C, then left to do its job. This temperature is high enough to kill off harmful bacteria in the water, but raising the temperature of the stored hot water any higher will result in wasted energy and increase the risk of scalding.

If you have a boiler control thermostat, it should always be set to a higher temperature than that of the cylinder thermostat. In most boilers, a single boiler thermostat controls the temperature of water sent to both the cylinder and radiators, although in some there are two separate boiler thermostats.

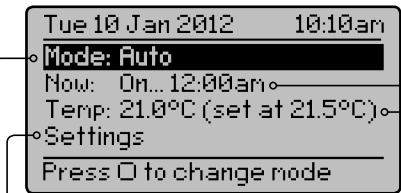
Step 1: Keys and Display - MiTime

RF Packs: T710R, T720R, T720M, T740R, T 740M



Step 2: Home Screens

Single Channel: MiTime T710R



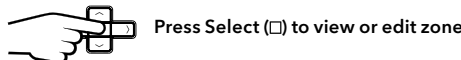
Link to Settings
See further details in Step 6.

Temp: describes the current status of the zone temperature, e.g. Temperature in zone is 21.0C and the setpoint is 21.5C
Link to modify the zone temperature.

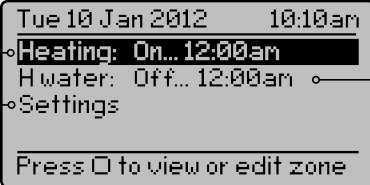
Now: describes the current status, e.g. programme is On until 12:00 am.
Link to Programme timetable - see further details in Step 4.

Current mode: Auto
Options: see table in Step 3.

Dual Channel: MiTime T720R, T720M



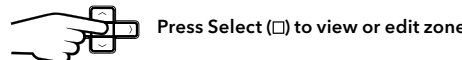
Zone = Heating
Current status: the programme is On until 12:00 am
Link to zone details, see Step 3.



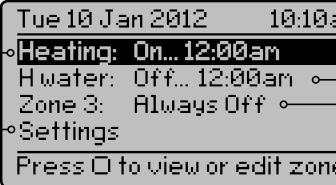
Zone = Hot Water
Current status: the programme is Off until 12:00 am
Link to zone details, see Step 3.

Link to Settings
See further details in Step 6.

Multi Channel: MiTime T740R, T740M



Zone = Heating
Current status: the programme is On until 12:00 am
Link to zone details, see Step 3.



Zone = Zone 3
Current status: the programme is Always Off
Link to zone details, see Step 3.

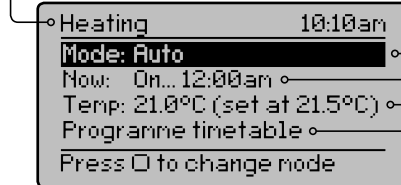
Zone = Hot Water
Current status: the programme is Off until 12:00 am. Link to zone details, see Step 3.

Link to Settings
See further details in Step 6.

Step 3: Zone Details (not Single Channel)

Zone = Heating

Current mode: Auto
Options: see table below.



Link to Programme timetable
See further detail in Step 4.

Temp: describes the current status of the zone temperature, e.g. Temperature in zone is 21.0C and the setpoint is 21.5C.
Link to modify the zone temperature.

Now: describes the current status, e.g. programme is On until 12:00 am. Link to Programme timetable - see further details in Step 4.



Mode:	Description:
Auto	The programmer will control the ON & OFF times in line with the programmed timetable
Always Off	The selected zone will be OFF
Always On	The selected zone will be ON
All Day (first on / last off)	The programme will control the ON & OFF times in line with the programmed timetable, but using only the first ON event and the last OFF event - it will remain ON in between these two periods.

Step 4: Prog. Timetable

Step 5: Period Settings

Step 6: Additional User Settings

Zone = Heating

Heating timetable 10:10am

Monday to Friday

1: 6:30am ... 8:30am

2: 4:30pm ... 10:30pm

Copy days

Use <> keys to switch days...

Link to Copy days

Timetable day range: Monday to Friday (Week and weekend)

Options: Individual days (7day), Week and weekend (5/2day), All week (24hr). The available blocks depend on the selection in menu "change timetable type"

Help text: Use left/right buttons to select the days you want to change

Arrow denotes that further options are available if you scroll down.

Period 1 settings: describes the current timetable settings, e.g. Heating has been programmed to turn On at 6:30am and go off at 8:30am

Period 2 settings: describes the current timetable settings, e.g. Heating has been programmed to turn On at 4:30pm and go off at 10:30pm

Press select (□) when highlighted to adjust settings (see Step 5)

Up to 4 periods can be programmed

Day range & period

Mon - Fri P1 10:10am

On at: Off at:

6:30 am 8:30 am

Use <> keys to switch field...

Highlight shows adjustable field: Use up/down buttons to adjust values

Period settings: On at 6:30am and Off at 8:30am

Help text: Use left/right buttons to change fields

Stored programmes

MiTime contains 3 pre-set programmes. An example is shown below. These programmes can be modified according to personal needs and can be stored by using a name. Via this name they also can be reloaded. Once a programme has been modified, the original factory pre-set will no longer be available. On a System Reset, only the current loaded programme will be replaced with the factory setting - see Installation Guide Step 4.

Programme 1 Example:	All week	Week & Weekend
	Mon-Sun	Mon-Fri Sat-Sun
1st On	6:30am	6:30am 7:00am
1st Off	8:30am	8:30am 9:00am
2nd On	4:30pm	4:30pm 4:00pm
2nd Off	10:30pm	10:30pm 11:00pm

Settings 10:10am

Programme timetable

Help

Holiday switch off

Time and date settings

Press 0 to select

Settings 10:10am

Help

Holiday switch off

Time and date settings

Installer settings

Press 0 to select

Press Select to enter a specific Setting. Options shown below:

Feature:	Description:	Factory Pre-Set:
Programme Timetable	On & Off times for the current period can be modified. See description in 'Step 4'	
Copy days	Will copy the current day to one or more other days	
Add Period	Adds a Time event. It will be added at the correct position within the day. There is a maximum of 4 periods.	
Remove Period	Removes the selected period. There needs to be at least 1 period	
Change Timetable Type	The visible day-blocks available in "programme timetable" can be defined, see Step 4	
Individual days	Each day can be programmed individually	
Week and weekend	Mon... Fri and Sat... Sun can be programmed as 2 blocks	Default
All week	Mon...Sun can be programmed as one block	
Stored programmes	MiTime contains 3 pre-set programmes. These programmes can be modified according to personal needs and can be stored by using a name. Via this name they can also be re-loaded. Once a programme has been modified, the original factory pre-set will no longer be available unless a System Reset is applied - see Installation Guide Step 4.	Programme 1
Load stored programme	A pre-set programme can be loaded	
Save current programme	The current programme can be saved by name (Each pre-set program includes: Individual days, week/ weekend, all day and custom day schedules)	

Feature:	Description:	Factory Pre-Set:
Help Tips	Describes the button functions	
Holiday switch off	In the period until holiday starts the product will operate normally. If holiday is disabled manually or terminates automatically, the mode before start of holiday will be re-instated. An enabled holiday will be indicated with a suitcase symbol in the top line. If holiday is active, in the Set: line the holiday end date will be indicated. In the Summary screen the suitcase will be visible together with the holiday temperature.	
Status	Enable or disable holiday mode.	Disabled
Zones	Holiday mode can be applied to a specific zone or all zones	All zones
Holiday start time (From)	Set the time for the start of your holiday	Current time - nearest hour
Holiday start date (From)	Set the date for the start of your holiday	Today
Holiday end time (To)	Set the time for the end of your holiday	Current time - nearest hour
Holiday end date (To)	Set the date for the end of your holiday	Today + 1 week
Time and date settings		
Set time	To set time of day	Factory set
Set date	To set date	Factory set
Daylight saving	To enable or disable daylight saving	Enabled
Clock format	To select 12h or 24h clock mode	12hr

Troubleshooting:

1	Setting temperature values is restricted
a	Are Minimum/Maximum temperatures activated? see Installation Guide Step 8.
2	NO SIGNAL is visible on the screen, no reaction on key presses anymore
a	Is the receiver powered? (Red signal lamp should be visible)
b	Is the room thermostat powered? see Homeowner Guide Step 9.
3	LOCKED is displayed on the room thermostat
a	see Installation Guide Step 8 - Screen Lock
4	Is the battery symbol visible?
a	Replace batteries, see Homeowner Guide Step 9.
5	STARTING is visible on the thermostat screen, no reaction on key presses anymore
a	Is the receiver powered? (Red signal lamp should be visible)
6	WAIT is visible on the thermostat screen, no reaction on key presses anymore
a	Is the receiver powered? (Red signal lamp should be visible)

Step 7: Keys and Display - MiStat

Step 8: +hr (Boost)

Step 9: Changing the Batteries

RF Pack: MiStat N110R, MiStat C110C

RF transmission indication. The RF symbol will be visible as follows,

Short flashes indicates an RF transmission.

Long flashes indicates an RF transmission issue.

Current room temperature

Current Setting, see table below

Call for heat indication. This flame will be visible when the room temperature is below the set temperature.

Current set temperature

+hr key: Press to add up to 3 hours to the current period or to get instant 1 to 3 hours if currently off (see step 8).

+ & - keys: Press to change the current temperature or turn the heat on if currently off

Select key: Press to open and save editor screens

* / C key: Press to toggle between Comfort setting, Eco setting and Home (Room thermostat only). See table below.

key: Press to cancel +hr and display home. (Cylinder thermostat only)

Symbol in display	Function	Description
☀	Comfort setting	Selects the comfort setting. The pre-set value is used each time when activated, adjustable within the menu
☾	Eco setting	Selects the Eco setting. The pre-set value is used each time when activated, adjustable within the menu.
None	Home screen	Indicates that the pre-set temperatures were changed via +/- key

Note: Settings changes can be made via the MiTime unit

Press +hr to Boost

Press +/- to adjust +hr period between 0 and 3 hours

Press (□) to confirm

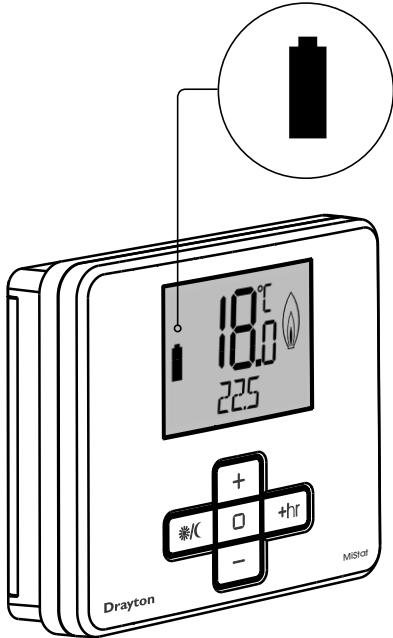
Now the Boost is running. The time will be counted down each hour.

Once the time has elapsed, control returns to the prior temperature screen.

The Boost can be cancelled by pressing the (* / C) key or by setting the +hr period to 0.

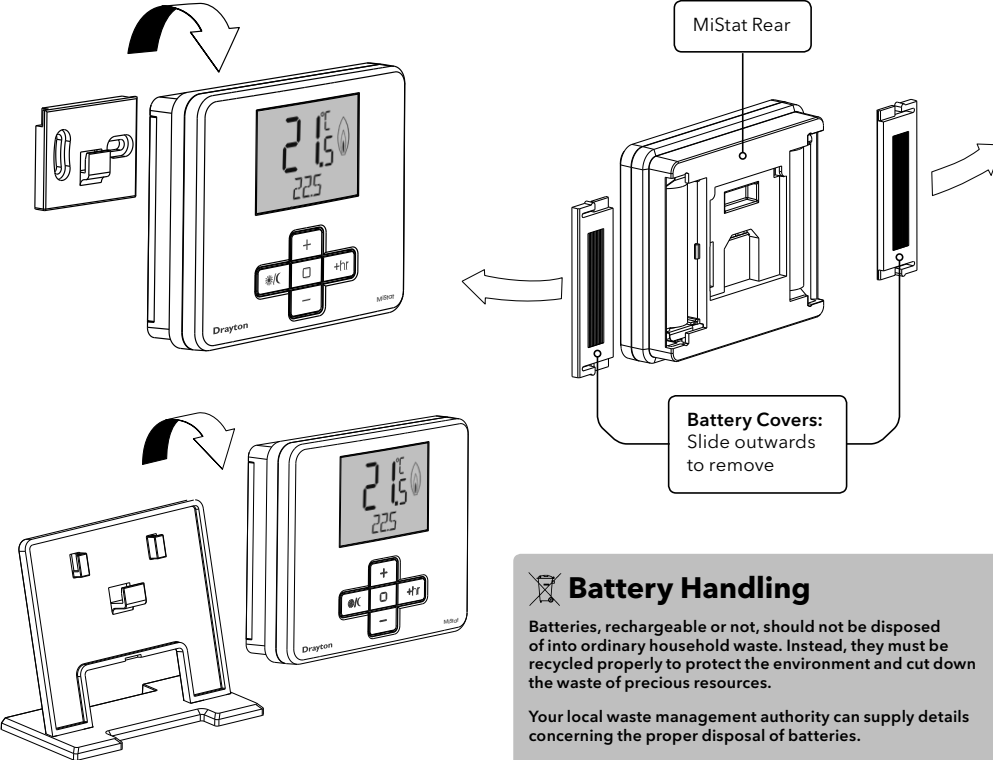
How do I know when to change the batteries?

When the batteries start to run low a battery icon will flash in the display to indicate "low battery", during this time the MiStat will function normally. When the battery icon alone is shown in the display, the batteries are completely exhausted and the MiStat will cease to function (see below). Re-activate by replacing the batteries.



How to replace the batteries

Remove the battery covers as shown. Replace the batteries with 2 x 1.5V IEC LR6 (AA) Alkaline batteries ensuring correct orientation. Replace the battery covers pressing fully home.



Battery Handling

Batteries, rechargeable or not, should not be disposed of into ordinary household waste. Instead, they must be recycled properly to protect the environment and cut down the waste of precious resources.

Your local waste management authority can supply details concerning the proper disposal of batteries.

In compliance with the EU Directive 2006/66/EC, the button cell battery located on the printed circuit board inside the product, can be removed at the end of the product life, by professional personnel only.