

Rako Time Clock MB1 – User Instructions

Construction

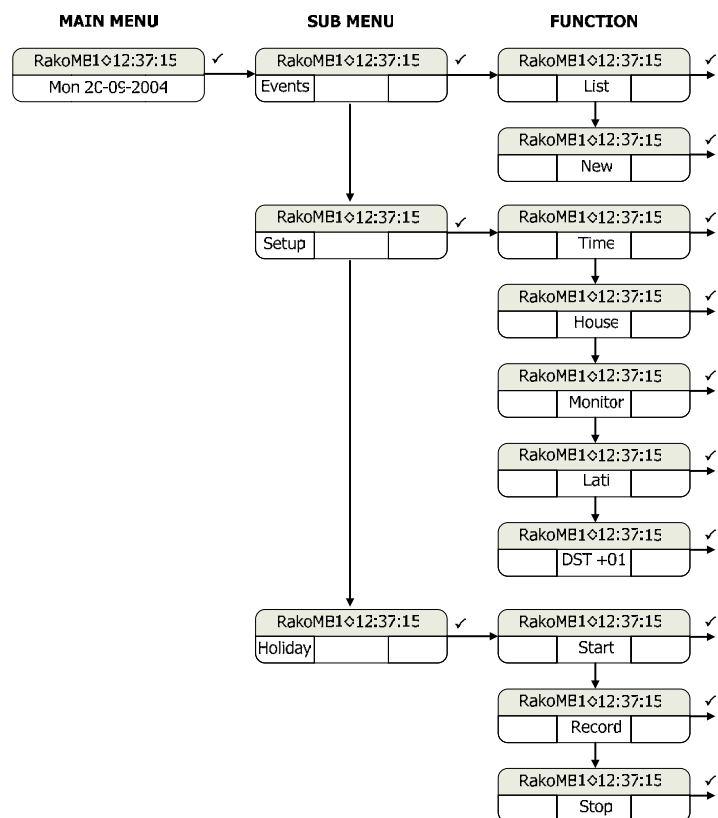
The MB1 can be removed from its back plate by pressing in the two retaining lugs at the base of the unit. This gives access to the fixing holes and the power terminals. A 12v DC supply is required (RAPSU) wired in the +12v and 0v Terminals

The MB1 transmits wireless FM code messages to the rako lighting and curtain control systems up to 100m away (Dependant on the building's construction) No further electrical connections are required.

Operation

The MB1 timeclock functions are programmed using a simple menu driven system.

The menu structure is:



To navigate the menus press the \blacktriangle \blacktriangledown keys and to select a menu press the \checkmark key. To return press the x key and at any time double pressing the x key will return to the main display.

Normal time display showing HOUR-MINUTES-SECONDS and the currently set DAY-DATE-MONTH-YEAR

RakoMB1\diamond12:37:15 Mon 20-09-2004
--

Setting The "TIME"

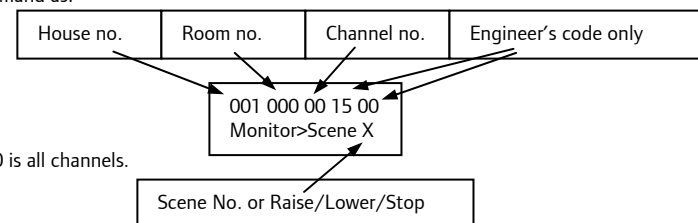
1) Go to Setup/Time and press \checkmark to access "year". Enter the last two digits of the current year, i.e. 05 for 2005. Press \checkmark to confirm and access "Month" enter the month and \checkmark to confirm. Repeat this for "Day" "Hour" "Minutes" "Seconds".

Setting the House

This function is necessary so that the MB1 is set to the same house address as all other Rako modules within the house.. to set this go to Setup/House and enter the same house address number as set for the other Rako devices (see individual device manual for more information). To confirm the correct house address has been set it is useful to use the Monitor function as defined below.

Monitor Function

The monitor function can be set so that the MB1 monitors the Rako radio traffic in the house. The MB1 will not monitor any commands with a different house address and is therefore useful to check the House address of the MB1 has been set correctly. To set the monitor function go to Setup/Monitor. The MB1 will now give an audible beep when a valid Rako commands is received and display the command as:



Note: Channel 0 is all channels.

Setting the Astro Function

The Astronomical function of the MB1 allows timed events to be triggered at Sunrise and Sunset rather than at absolute times. To give accurate results the MB1 needs to be set with the correct latitude. The default setting is 51° N which is set for London. To alter the latitude settings go to Setup/Lat and enter the latitude relating to the installation location of the MB1, press the \checkmark key and if necessary use the \blacktriangle \blacktriangledown keys to change between northern and southern hemispheres. Pressing the \checkmark Key to confirm then gives the option to enter and adjustment factor. The display "Adj" will appear. This can be set to adjust the difference between the local time and the area time zone e.g. Bristol is in the same time zone as London but sunrise occurs approximately 20 minutes later due to it being more westerly and should be set with an adjustment of +20. To change the adjustment from + to - use the \blacktriangleright \blacktriangleleft keys.

Rako Time Clock MB1 – User Instructions

Daylight Saving

To advance and retard the MB1 to keep track of daylight saving go to Setup/DST. Enter 1 for summer, i.e. GMT +1 hour, and 00 for winter.

Setting a New Timed Event

To enter a new event go to Events/New

Press the ✓ Key The display will change to:

“ON R004 C00 S04

T00:00 SMTWTFS”

The Cursor will be flashing on the “On”

The ► ◀ Keys Scroll through each respective segment.

“On” Using the ▲▼ Keys a timed event can be switched off or on if that event needs to be postponed

“R004” enter the room number for the event (Warning! Please note room 0 will control the complete house)

“C00” should a specific channel in a room require an event enter the channel number here or leave it on C00 for the complete room (Default is C00 and should normally be used)

“S04” Enter the Scene ie 1, 2, 3 or 4 and 0 for off.

In this segment using the ▲▼ Keys scrolls between S for scene, M for Macro (currently not available) or L for Level to set a specific light level between 0 and 255

“T00:00” enter the hour and minute for the event

To activate an event at Dawn or Dusk put the cursor on the T and use the ▲▼ Keys to scroll between T, Dawn and Dusk.

“SMTWTFS” These represent the days of the week using the ▲▼ Keys, changes the letters between upper and lower case. A lower case letter is INACTIVE (not to be transmitted on that day) and an upper case letter is ACTIVE (will be transmitted on that day)

ie “SmtwtfS” would only have timed commands on Saturday and Sunday.

“sMTWTFS” would have events weekdays only

Pressing the ✓ Key confirms the Event

At any time selecting the ✕ twice will return you back to the Normal Screen

Editing a Timed Event

To edit an existing timed event go to Events/List and press the ✓ Key, the display will start at the first listed event. The ▲▼ Keys will scroll through all the imputed events. Pressing the ✓ Key on an event will show the flashing cursor and the event can be modified as previously described.

Pressing the ✓ Key confirms the Event

Deleting an event can be done using the red dot and pressing ✓ Key to confirm

At any time selecting the ✕ twice will return you back to the Normal Screen

Holiday Mode.

The Rako MB1 timeclock unit has the ability to record two weeks of Rako messages and replay these as a “Holiday Mode” thus replicating normal lighting use to increase home security. The MB1 needs to be set to record a normal two week period.

To start recording go to Holiday/Record and confirm using the ✓ Key. The MB1 asks for a confirmation and will then start recording. At the end of the period the unit will stop recording automatically. Whilst recording the main display will show “Record” as below:

Record<>12:37:15
Mon 20-09-2004

Note: Once an MB 1 has been set to Record it immediately deletes any previously stored holiday events.

If it is necessary to stop the recording or to re-start then go to Holiday/Record and press the ✓ Key when “Stop” is displayed.

Once a holiday sequence has been recorded to set the unit replaying go to Holiday/Start and press the ✓ Key. The unit will start to replay the recorded sequence. Whilst replaying the sequence the main display changes to show the unit is in holiday mode, the bottom display line will also show “Holiday Stop” for a minute before reverting to its normal Day and Date display.

Note: The MB1 will still carry out normal timed events whilst in Holiday Mode.

Holiday<>12:37:15
Mon 20-09-2004

To stop Holiday mode whilst the Holiday Stop is displayed on the main menu simply press the ✓ Key or go to Holiday in the menu and press the ✓ Key when Stop is displayed.

Rako Control Ltd
Slip 7
The Historic Dockyard
Chatham
Kent
ME4 4TE
Tel: 0870 043 3905
Fax: 0870 043 3906
sales@rakocontrols.com
www.rakocontrols.com