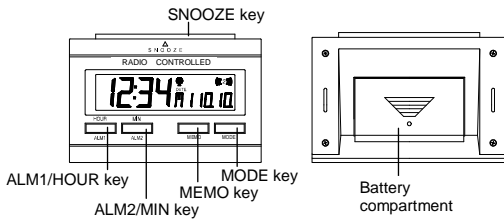# MEMO ALARM CLOCK
Operating Manual

INTRODUCTION
Congratulations on purchasing this state-of-the-art Alarm clock with radio controlled time. The operation of this product is simple and straightforward and by reading this manual, users will receive the optimum benefits of all its features.

SNOOZE key
ALM1/HOUR key
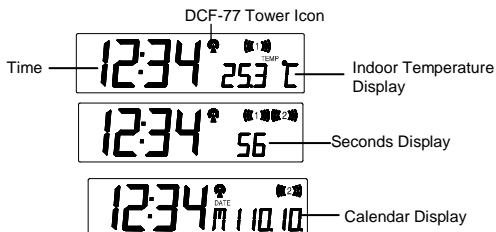ALM2/MIN key
MEMO key
MODE key
Battery compartment

FEATURES
- DCF-77 Radio controlled clock with manual setting options
- 24 hour time display
- Calendar display
- 2 independent alarm settings
- Memory alarm
- Alarm snooze function
- Indoor temperature display in degree Celsius
- Back-light

SETTING UP
1. First, slide to open the battery cover at the back of the alarm clock as indicated above.
2. Checking the correct polarization, insert 2 x AAA, IEC LR3, 1.5V battery into the battery compartment and replace the cover.
3. When the battery is inserted, all the segments of the LCD will light up briefly and a "beep" sound will be heard before entering the radio controlled time reception mode. Within 30 seconds, the 'DCF-77 Tower' icon will appear and start flashing. Your alarm clock is now operational and it automatically starts scanning for the radio controlled time signal. This will takes about 3 to 5 minutes. When the time signal is being received, both the time and 'DCF-77 Tower' icon will be displayed on the alarm clock.
4. If reception is not successful within approximately 10 minutes, either manually set the time or wait for the clock to receive DCF time. Usually, the clock will automatically attempt each full hour to receive the DCF time. When this is successful, the received DCF time will override the manually set time. The date is also updated with the received time (Please refer also to notes on "**Radio controlled time**" and "**Manual time setting**").

LCD SCREEN
The Memo Alarm clock can toggle and display information of time, indoor temperature, seconds and date when pressing the MODE key.

DCF-77 Tower Icon
Time
Indoor Temperature Display
Seconds Display
Calendar Display

FUNCTION KEYS
The alarm clock has five easy-to-use function keys:

MODE key
- To toggle between 3 display modes:
  Indoor temperature;
  Seconds;
  Calendar: weekday, date and month (only displayed when DCF reception is successful)
- To enter the manual time setting mode when pressed and hold for about 2 seconds
- To exit the memory alarm mode

ALM1/HOUR key
- To enter the Alarm1 setting mode if pressed and held for about 2 seconds
- To set the hour in manual time setting and alarm setting modes
- To activate/deactivate Alarm 1
- To stop the alarm
- To de-activate the snooze during snooze time

ALM2/MIN key
- To enter the Alarm 2 setting mode if pressed and held for about 2 seconds
- To set the minutes in manual time setting and alarm setting modes
- To activate/deactivate Alarm 2
- To stop the alarm
- To de-activate the snooze during snooze time

MEMO key
- To display the current Alarm 1 time and the previous three alarm time settings

SNOOZE key
- To activate/de-activate the snooze function
- To display Alarm 2 time when press and hold the key for about 2 seconds
- To exit the manual time setting mode
- To exit the alarm setting mode
- To exit the memory alarm mode

RADIO CONTROLLED TIME
The time base for the radio-controlled time is a Cesium Atomic Clock operated by the Physikalisch Technische Bundesanstalt Braunschweig which has a time deviation of less than one second in every one million years.
The time is coded and transmitted from Mainflingen near Frankfurt via frequency signal DCF-77 (77.5 khz) and has a transmitting range of approximately 1,500 km. The alarm clock receives this signal and converts it to show the precise time and so when within this range the received time is completely accurate.

CHECKING FOR DCF-77 RECEPTION
The alarm clock will automatically start scanning for the DCF-77 frequency signal after the battery is inserted. In normal surroundings (for example away from interfering sources such as TV sets), it takes between 3 to 5 minutes to receive the signal. If after 10 minutes of inserting the battery into the alarm clock and the DCF-77 signal is not received, then check the following list before manually setting the time (see **Manual time setting** below):
1. The distance of the alarm clock should be at least 1.5 - 2.0 meters away from interfering sources such as computer monitors or TV sets.
2. Avoid placing the alarm clock onto or in the immediate proximity of metal doors, window frames or structures.
3. Within thick concrete rooms such as basements and tower blocks, the DCF-77 signal is naturally weaker. In extreme cases, place the alarm clock closer to a window and/or point its front or rear towards the general direction of the Frankfurt transmitter (avoid placing near metal frames and structures).

Note:
Users may be located in areas where atmospheric disturbances are the direct cause for not receiving the DCF-77 frequency signal. During nighttime, atmospheric disturbances are usually less severe and reception is possible in most cases. With a single daily reception, it is adequate for the alarm clock to keep time deviation to below 1 second in a period of 24 hours.

When scanning for time signal, the 'DCF-77 Tower' icon will start flashing on the LCD as a sign that the signal has been found and reception is being attempted. Once the signal is "locked", the 'DCF-77 Tower' icon will stay fixed on the LCD and the received time will automatically correct the manually set time. As well as the time, the date will also be received by the alarm clock which is displayed accordingly in the calendar section of the LCD.
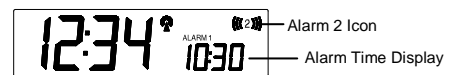
MANUAL TIME SETTING MODE
In some cases after inserting the battery, the alarm clock may not be able to receive the DCF-77 signal. In this situation, the time should be manually set (before manual setting see **Checking DCF-77 Reception** above).
1. Press and hold the MODE key for about 2 seconds to enter the manual time setting mode. The time digits start flashing.
2. Set the time by pressing the ALM1/HOUR key to enter the hour and the ALM2/MIN key to enter the minutes (each press or holding the keys down will increase the digits by one)
3. Once the time is set, either press the SNOOZE key or wait for automatic timeout to exit the manual time setting mode.

Note:
The calendar will not be displayed when time has been manually set. It only will be displayed when DCF reception is successful.

ALARM 1 AND ALARM 2 SETTINGS

Alarm 2 Icon
Alarm Time Display

1. Press and hold the ALM1/HOUR key for about 2 seconds to enter the Alarm 1 setting mode (Alarm 1 time will start flashing).
2. Use the ALM1/HOUR key to set the hour and the ALM2/MIN key to set the minute. Pressing these keys continuously moves the hours and the minutes consecutively by 1.
3. Once the Alarm time is set, either press the SNOOZE key or wait for automatic timeout to exit the alarm setting mode.

Repeat the same steps using ALM2/MIN to enter the Alarm 2 setting mode (Alarm 2 time will start flashing).

Note:
Ensure that the alarm icons (((1))) or/and (((2))) are displayed on the LCD otherwise the alarm(s) will not sound when the alarm time is (are) reached. The duration for the alarm ring time is about 90 seconds.
To set the alarm ON/OFF, press the ALM1/HOUR or ALM2/MIN until the (((1))) or/and (((2))) icon appears = ON or disappears = OFF.
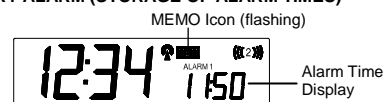
TO STOP THE ALARM(S):
When the alarm is sounding, either press the ALM1/HOUR key, the ALM2/MIN key, or the MODE key to stop the alarm, or press the SNOOZE key to enter in the snooze mode.

SNOOZE SETTING
To use the snooze feature, simply press the SNOOZE key when the alarm is sounding and the alarm will snooze from the start of next minute for 6 full minutes before automatically sounding again. When the alarm is snoozing, the alarm icon (((1))) or (((2))) will start flashing indicating that the alarm is active but in Snooze mode.

To stop the snooze function when it is in snooze period, press and hold the SNOOZE key until a "beep" is sounded. You can also press the ALM1/HOUR key, the ALM2/MIN key, or the MODE key once to stop the snooze function.

MEMORY ALARM (STORAGE OF ALARM TIMES)

MEMO Icon (flashing)

Alarm Time Display

This unique feature enables to view four previously alarm set times including the current alarm 1 time. To select the desired alarm time from a previously recorded alarm time without the need to re-enter that specific alarm time, please follow these steps:
1. Press the MEMO key to select from any previously recorded alarm times (current alarm 1 time and the 3 previous alarm times).
2. Press either the ALM1/HOUR or ALM2/MIN key to store the selected alarm time as the current set alarm time for Alarm 1 or Alarm 2.
3. If no selection of alarm time is made, either press the SNOOZE key or the MODE key; or wait for automatic timeout to exit the memory alarm mode.

Note:
The current alarm 1 time viewed on the memory alarm mode can also be selected and stored on the current alarm 2 time by pressing ALM2/MIN key. Once this current alarm 2 time has set, the current alarm 1 time will automatically replace by the previous alarm 2 time.

Upon exiting the memory alarm mode, the alarm icons (((1))) or (((2))) will be automatically ON, indicating that the Alarm 1 or Alarm 2 is active.

BACK-LIGHT
The back-light is automatically switched ON when any keys are pressed. The back-light will be switched on for approximately 2 seconds before automatically switching OFF. However, if any of the keys are pressed and held down, then back-light will remain ON constantly until the key is released.

REPLACING BATTERIES

- For optimum running accuracy, batteries should be replaced at least once a year or when the LCD contrast becomes dim or unclear.
- Immediately remove all low powered batteries to avoid leakage and damage. Replace only with new batteries of the recommended size.

Please help in the preservation of the environment and return used batteries to an authorized depot.

MAINTENANCE

- Avoid placing alarm clock in areas prone to vibration and shock as these may cause damage and inaccurate readings.
- Avoid exposure to sudden changes in temperature such as direct sunlight, extreme cold and wet or moist conditions.
- When cleaning the display and casing, use a soft damp cloth only. Do not use solvents or scouring agents as they may mark the LCD and casing.
- Do not submerge the alarm clock into water.
- Do not make or attempt to make any repairs to the alarm clock. Return it to its original point of purchase for repair by a qualified engineer. Opening and tampering with the alarm clock may invalidate its guarantee

SPECIFICATIONS

- Temperature measuring range: 0ºC to +50ºC
- Radio controlled time signal: DCF-77
- Power source: 2 x AAA, IEC LR3, 1.5V battery (Alkaline battery recommended)
- Battery life: approximately 12 months
- Dimensions (L x W x H): 102.5 x 48 x 69 mm

LIABILITY DISCLAIMER

- The electrical and electronic wastes contain hazardous substances. Disposal of electronic waste in wild country and/or in unauthorized grounds strongly damages the environment
- Please contact your local or/and regional authorities to retrieve the addresses of legal dumping grounds with selective collection
- All electronic instruments must from now on be recycled. User shall take an active part in the reuse, recycling and recovery of the electrical and electronic waste.
- The unrestricted disposal of electronic waste may do harm on public health and the quality of environment.
- This product must however not be thrown in general rubbish collection points.
- As stated on the gift box and labeled on the product, reading the "User manual" is highly recommended for the benefit of the user.
- The manufacturer and supplier cannot accept any responsibility for any incorrect readings and any consequences that occur should an inaccurate reading take place.
- This product is not to be used for medical purposes or for public information.
- The specifications of this product may change without prior notice.
- This product is not a toy. Keep out of the reach of children.
- No part of this manual may be reproduced without written consent of the manufacturer.

R&TTE Directive 1999/5/EC
To be used in EC Member and EFTA States.

Summary of the Declaration of Conformity : We hereby declare that this wireless transmission device does comply with the essential requirements of R&TTE Directive 1999/5/EC.