

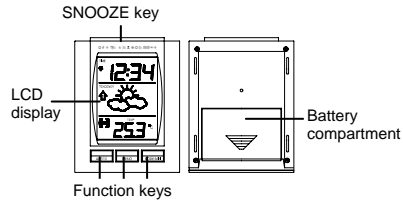
WEATHER FORECAST MEMO ALARM CLOCK

Instructions manual

INTRODUCTION:

Congratulations on purchasing this state-of-the-art Weather forecast memo 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.

Memo Temperature Alarm Clock



FEATURES:

- DCF-77 Radio controlled clock
- 24 hours time
- Calendar display (date, month, weekday)
- Memo alarm
- Snooze setting (2-15 minutes)
- Time zone setting ($\pm 9h$)
- Weather forecast with weather tendency indicator
- Indoor temperature
- Table standing

SETTING UP:

1. Firstly, slide open the battery cover at the back of the alarm clock as indicated above.
2. Checking the correct polarization, insert 1 x AA, IEC LR6, 1.5V battery into the battery compartment and replace the cover.
3. Once the battery is in place, all segments of the LCD will light up briefly and a short signal tone will sound. Then the time as "0:00" and the indoor temperature will be displayed. If the indoor temperature is not displayed after a few seconds, remove the battery and wait for at least 10 seconds before reinserting it.
4. If after 10 minutes the DCF time has not been received, reset the alarm clock and manually enter the time. The clock will automatically attempt each hour to receive the DCF time. When this is successful, the received 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").

FUNCTION KEYS:

The alarm clock has four easy to use function keys:

SNOOZE key

- To display the current alarm time if pressed and held for 2 seconds in normal display mode
- To activate/de-activate the snooze function
- To exit the manual setting modes

AL/STD key

- To enter the Alarm setting mode if pressed and held for 2 seconds
- To display the current alarm time in normal display if pressed briefly
- To changes the hour, time zone, day and weekday setting in manual set modes
- To activate the alarm ON/OFF
- To store the current alarm time
- To stop the alarm

MODE/MIN key

- To toggle between 4 display modes:
Indoor temperature
Seconds

Date and month (only displayed when time zone is set to "0h")

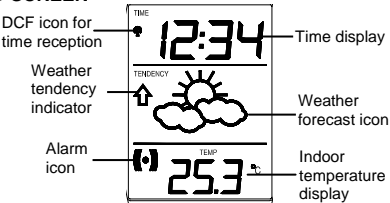
Weekday and date (only displayed when time zone is set to "0h")

- To enter the Time zone setting mode if pressed and held for 2 seconds
- To set the minutes, snooze time, month, alarm time in manual setting modes
- To stop the alarm

MEMO key

- To display any of the 3 alarm time settings
- To stop the alarm

LCD SCREEN



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 3-5 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 0.5 seconds in a period of 24 hours.

When reception is successful, 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.

LCD 1- 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/MIN** key for 2 seconds, (the time zone and snooze time will be displayed), then press the **MEMO** key.
2. Set the time by pressing the **AL/STD** key to change the hour and the **MODE/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 **MEMO** key to change the **Calendar setting** or press the **SNOOZE** key to exit or wait for automatic timeout to exit the Manual time setting mode.

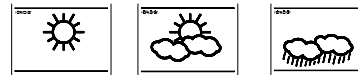
Note:

The alarm clock will still try to receive the signal every hour despite it being manually set. When it does receive the signal, it will change the manually set time into the received time. During reception attempts the DCF tower icon will flash. If reception has been unsuccessful, then the DCF tower icon will not appear but reception will still be attempted the following hour.

LCD 2 – WEATHER FORECAST AND WEATHER TENDANCY INDICATORS

THE WEATHER FORECASTING ICONS:

There are 3 weather icons on the second section of the LCD which can be displayed in any of the following combinations:



Sunny Cloudy with sunny intervals Rainy

For every sudden or significant change in the air pressure, the weather icons will update accordingly to represent the change in weather. If the icons do not change, then it means either the air pressure has not changed or the change has been too slow for the Weather Station to register. However, if the icons displayed is a sun or raining cloud, there will be no change of icon if the weather gets any better (with sunny icon) or worse (with rainy icon) since the icons are already at their extremes.

The icons displayed forecasts the weather in terms of getting better or worse and not necessarily sunny or rainy as each icon indicates. For example, if the current weather is cloudy and the rainy icon is displayed, it does not mean that the product is faulty because it is not raining. It simply means that the air pressure has dropped and the weather is expected to get worse but not necessarily rain.

Note:

After setting up, readings for weather forecasts should be disregarded for the next 12-24 hours. This will allow sufficient time for the alarm clock to collect air pressure data at a constant altitude and therefore result in a more accurate forecast. Common to weather forecasting, absolute accuracy cannot be guaranteed. The weather forecasting feature is estimated to have an accuracy level of about 75% due to the varying areas the alarm clock has been designed for use in. In areas that experience sudden changes in weather (for example from sunny to rain), the alarm clock will be more accurate compared to use in areas where the weather is stagnant most of the time (for example mostly sunny).

If the alarm clock is moved to another location significantly higher or lower than its initial standing point (for example from the ground floor to the first floor of a house), remove the batteries and re-insert them after about 30 seconds. By doing this, the alarm clock will not mistake the new location as being a possible change in air-pressure when really it is due to the slight change of altitude. Again, disregard weather forecasts for the next 12 to 24 hours as this will allow time for operation at a constant altitude.

THE WEATHER TENDENCY INDICATOR

Working together with the weather icons are the weather tendency indicators (located on the left and right hand side of the weather icons). When the indicator points upwards, it means that the air-pressure is increasing and the weather is expected to improve, but when indicator points downwards, the air-pressure is dropping and the weather is expected to become worse.

Taking this into account, one can see how the weather has changed and is expected to change. For example, if the indicator is pointing downwards together with cloud and sun icons, then the last noticeable change in the weather was when it was sunny (the sun icon only). Therefore, the next change in the weather will be cloud with rain icons since the indicator is pointing downwards.

Note:

Once the weather tendency indicator has registered a change in air pressure, it will remain permanently visualized on the LCD.

LCD-3 TIME ZONE, SNOOZE TIME, DATE ALARM AND MEMO ALARM SETTING:

TIME ZONE AND SNOOZE TIME SETTING

The time zone can be set ± 9 hours:



1. Press and hold the **MODE/MIN** key for 2 seconds to enter in the Time zone and Snooze time setting mode. The time zone digit is located on the left side and the snooze time digit is located on the right side of the LCD)
2. Use the **AL/STD** key to set the time zone (default time zone "0"). The range runs from 0 to +9 and then runs from -9 back to 0 in consecutive 1 hour interval.

Note:

If the Time zone is set to "0" (0 hour), the calendar will be displayed in normal display mode.

If the Time zone is set to other than "0", the calendar will not be displayed in normal display mode.

3. Once the time zone is set, press the **MODE/MIN** key to set the snooze time (on the right side of the LCD). The snooze time can be set between 2 and 15 minutes (default 6 minutes).
4. Press the **MODE/MIN** key again to set the snooze time duration. The snooze can be set from 2-15 minutes.
5. Press the **SNOOZE** key or do not touch any buttons for about 8 seconds. The mode will return to normal display mode.

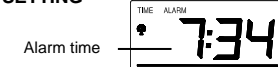
CALENDAR SETTING



The date default of the Weather Forecast Memo Alarm clock is 1.1. or MO (Monday). Once the radio-controlled time signals are received, the date is automatically updated. However, if the signals are not received, you can adjust the date manually. To do this:

1. Press and hold the **MODE/MIN** key for 2 seconds to enter the time setting mode. The digits start flashing.
2. Then press twice the **MEMO** key to enter into the calendar setting mode.
3. Press the **AL/STD** key to set the date display (flashing).
4. Press the **MODE/MIN** key to set the month display (flashing).
5. Press the **MEMO** key again to enter the weekday setting.
6. Press the **AL/STD** key to set the weekday.
7. Press the **SNOOZE** key once more to confirm all settings or do not touch any buttons for around 8 seconds. The mode will return to normal.

ALARM SETTING



1. Press and hold down the **AL/STD** key for around 2 seconds until the digits start flashing in LCD 1.
2. Press the **AL/STD** key again to set the hour and the **MODE/MIN** key to set the minutes. Pressing these keys continuously moves the hours and the minutes consecutively by 1.

- Once the Alarm time is set, press the **SNOOZE key** or wait for automatic timeout to exit the Alarm time setting mode.

Note:

Upon exit of the alarm setting, the alarm icon will appear on the LCD and the alarm function will be automatically ON. The duration for the alarm ring time is about **98 seconds**

To set the alarm ON/OFF, press the **AL/STD key** briefly. The ((•)) icon appears = ON or disappears = OFF.

TO STOP THE ALARM:

When the alarm is sounding, press any key to stop the alarm. Or press the **SNOOZE key** briefly to enter in the snooze mode.

SNOOZE SETTING

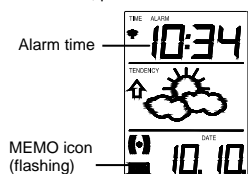
- When pressing the **SNOOZE key** once during alarm sounding, the snooze function is activated.
- When pressing the **SNOOZE key** during alarm sounding or snooze function for about 2 second, after confirmation of a "beep" sound, the alarm will switch OFF for the next 24 hours and no snooze function will be activated.

Note:

If the **SNOOZE key** is pressed down for about 2 second, except during alarm ringing, it will display the alarm time.

MEMORY ALARM (STORAGE OF ALARM TIMES)

This unique feature enables to view the previously alarm set times including the current alarm 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:



- Press the **MEMO key** to select from any of the **three recorded alarm times (current alarm time and previous alarm times)**.
- Press the **AL/STD key** to store the selected alarm time as the current set alarm time.
- Press the **SNOOZE key** or wait for automatic timeout. The mode will return to normal display mode.

Note:

Upon exit of the memo alarm setting, the alarm will be automatic ON.

LCD BACKLIGHT

The LCD backlight will be ON for about 2 seconds when pressing any key.

REPLACING BATTERY:

- For optimum running accuracy, battery should be replaced at least once a year or when the LCD contrast becomes dim or unclear.



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 Unit may invalidate its guarantee.

SPECIFICATIONS:

- Recommended operating temperatures: **0.1°C to +59.9°C with 0.1°C resolution**
- Indoor temperature checking interval: **Every 10 seconds**
- Radio controlled time signal: **DCF-77**
- Power source: **1 x AA, IEC LR6 1.5V battery**
- Battery life: (Alkaline batteries recommended) **Approximately 12 months**
- Dimensions (L x W x H): **78 x 45 x 100mm**

LIABILITY DISCLAIMER:

- 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.
- This product is only designed to be used in the home as indication of the future weather and is not 100% accurate. Weather forecasts given by this product should be taken only as an indication and not as being totally accurate.
- 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.