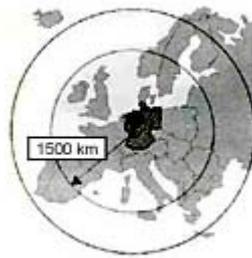


Operating instructions The Radio-Controlled Clock 98.1003

With the Radio-Controlled Clock, you can have the most accurate time within the continent. It can receive the time signal transmitted by Physikalisch-Technische Bundesanstalt (PTB) of Germany, which is regulated by 4 atomic clocks and in average deviates less than 1 second in 2 million years.

PTB transmit the time signal (DCF77, 77.5kHz) continuously from Mainflingen, 25 km southeast of Frankfurt (am Main). It is expected that the signal can cover a distance of 2,000 km from the transmitter. However, some environmental effects (see Attention below) may affect the transmitting distance. For more information, please study the WEB page of PTB at: <http://www.ptb.de>



Attention

The Radio-Controlled Clock obtains the accurate time with wireless technology. Same as all wireless devices, the receiving ability may be affected by, but not limited to, the following conditions:

- Long transmitting distance.
- Nearby mountains and valleys.
- Among tall buildings.
- Near railway, high voltage cable, etc.
- Near freeway, airport, etc.
- Near construction site.
- Inside concrete buildings.
- Near electrical appliances.
- Bad weather.
- Inside moving vehicles.
- Nearby metallic structures.



Specifications

- Model: 7182/7192
- Receive 77.5kHz DCF77 signal transmitted by PTB at Mainflingen, Germany.
- Automatic time adjustment after signal reception.
- Calendar with day-of-the-week display from 1 January 1998 to 31 December 2097.
- Hour, Minute and Second display.
- 12 or 24 hour format.
- Crystal oscillator frequency: 32.768kHz.
- Time accuracy (atomic clock): better than 1 second in 2 million years.
- Time accuracy (free run): average within (30 seconds per month).
- Batteries: AA size x 2
- Battery life: about 1 year

Basic Operation

The Radio-Controlled Clock should be able to set the correct time after installing the batteries.

Installing the Batteries

Pull the tab on the battery door located at the bottom of the clock. Put in the batteries with proper polarity (+) and (-). Response after installing batteries

First reception after power-up

- The clock initializes at 12:00 AM, Friday 1 January.
- It will start to search for the DCF77 signal for 10 minutes after installing the batteries.
- In an optimal condition, the correct time can be displayed within 3 to 5 minutes.
- The tower and wave icon will keep scrolling after you start the clock. It is normal since this indicates the radio control circuitry inside the clock is working.
- Successful reception is indicated by the "Wave OK" icon.

Within the first three hours

- If the clock failed to receive the signal in the first reception after power-up, it will repeat a 10-minute reception every 30 minutes.
- This operation stops once the time signal is received.

After the first three hours

- If no signal can be received within the first 3 hours, the clock will repeat a reception every 3 hours.
- This operation will not stop until signal can be received.

Automatic time update

- The clock will automatically update its time twice a day at 01 :00 (1 :00 AM) and 13:00 (1 :00 PM).
- If the automatic time update failed, the clock will repeat the update every three hours until it succeeds.

Manual time update

- Reception can be started anytime by pressing the "WAVE" button at the front.
- Note: Frequent use of this feature may affect battery life.

Caution:

In some unusual occasions, the clock may be affected by noise and respond abnormally. In such conditions, press the "RESET" button to resume normal operation.

Important:

It is recommended to put the Radio-Controlled Clock near a window facing Mainflingen (near Frankfurt am Main), Germany.

Please move the clock to another location if difficulty in signal reception is encountered.

12HR/24HR International Time Display

- Press the 12HR / 24HR button to choose the desired display format.
- "IIAM" or "IIPM" will be displayed in 12HR format.

To Set Calendar

- Slide to CALENDAR, Press MONTH, DATE or YEAR buttons to set your desired calendar.

Remark: Incorrect calendar will be automatically adjusted. i.e. February 30 will be adjusted to February 1, April 31 will be adjusted to April 1.

To Set Time

- Slide to TIME SET, press HR or MIN button to set your desired time.

"LOCK" Function

- After you set time, slide to the LOCK position to protect the set time against unnecessary changes caused by touching of buttons.

Note: The Radio-Controlled feature is disabled when the switch is away from the "LOCK" position.

Attention

- Care: Avoid exposing your timer to extreme temperatures, water or severe shock. Avoid contact with any corrosive materials such as perfume, alcohol or cleaning agents.

- Battery: Replace the battery when the display becomes weak or the alarm level declines. Used batteries have to be put in the specially reserved collecting receptacles.

- Guarantee: Please change the battery before complaining. No guarantee if the instrument is handled or opened improperly.

- Keep away from children!