



**GARDÉ**®



**150 Jahre**  
Uhren und Maschinen  
aus Ruhla  
1862 bis 2012

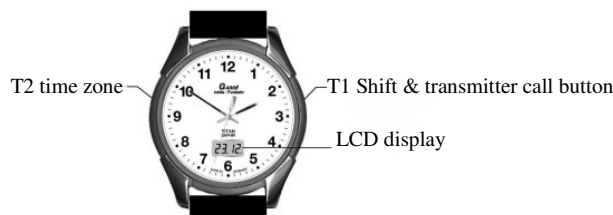
## GARDÉ Uhren und Feinmechanik Ruhla GmbH

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### Operating Instructions: rc-watch analog-digital for gents

#### Features / Watch functions:

- 3-hand analogue movement with LCD display for seconds and date
- Automatic time setting and correction with the DCF 77 transmitter
- Automatic summer / winter time setting
- Daily synchronisation to the second
- Time zone adjustment
- Transmitter call
- Watch can be set manually
- Low battery indicator in the LCD
- Waterproof up to 5 atm



#### ■ LCD display:

The LCD indicates the date [11.3.] by default. By pressing corrector T1 briefly using a sharp object it changes to show continuously running seconds and the radio tower with the reception indicator [25 0]. The number in the reception display indicates how many days the radio controlled watch was unable to receive a DCF signal. A "0" means very good radio reception. After 3 seconds, the radio reception indicator changes automatically back to indicate the date. Please change the battery when the entire LCD flashes.

#### ■ Setting the time zone:

If you are located outside of Germany in a different time zone, you can set this manually by pressing corrector T2 using a sharp object. After briefly pressing corrector T2 the LCD indicates the current hour. Briefly press corrector T2 to increase the displayed hour by one. By doing so you can set any time zone (with full hours). The hands will automatically move forward to the time zone selected.

**Attention:** If a time zone is selected that is more than +1 hour or less than -1 hour, the automatic transmitter synchronisation and the manual transmitter call are disabled.

#### ■ Setting the time zone back:

By pressing corrector T2 for more than 3 seconds, the time zone indicator in the LCD changes to Central European Time. The hands of your radio controlled watch will automatically move to the current time or to summer time respectively. Thanks to the internal time memory this setting is possible at any time, even during or after long distance travels and outside the range of the DCF transmitter.

#### ■ Changing the battery (CR1620):

Please always ask a specialist retailer to change the battery.

Only use a new, high-quality battery of the type "CR1620" as battery leakage could otherwise severely damage your watch.

Always remove used batteries from your watch immediately in order to prevent damages.

#### **Please note:**

Please observe the laws governing battery disposal!

Used batteries must not be disposed of in domestic waste. Please return used batteries to your local retailer or to special public waste or battery disposal points. Never open, short circuit or throw used batteries into a fire.

#### ■ Restart after replacing the battery:

Once the new battery has been inserted, the LCD displays "H". The hands must now be set to the 12 o'clock position. Your watch will then accept this initial setting of the hands as the defined 12 o'clock position.

#### **Set the hands as follows:**

By pressing and holding corrector T2 for >3s, the hands will move rapidly. Press corrector T2 once more as soon as the hands have reached the 11:55 o'clock position, and the rapid advance stops. By repeatedly pressing corrector T2 briefly, the hands will move in single steps to the exact 12 o'clock position. In order to set the seconds hand press corrector T1. The LCD changes to show "S". Press and hold corrector T2 until the seconds hand approaches the 11:55 o'clock position. Move the seconds hand to the exact 12:00 o'clock position by briefly pressing corrector T2. Once all hands have reached the 12:00 o'clock, press corrector T1 for > 3s and in the LCD the radio reception indicator is displayed. The LCD shows the running seconds and the radio tower flashes to confirm reception of the DCF signal. During this reception phase, the hands will remain on 12 o'clock. As soon as your watch recognises the 59<sup>th</sup> second, it will synchronise the seconds display to the current time. If reception is good, the hands will move to the correct time within a few minutes. The LCD changes automatically to show the date. In the case of poor reception or positions outside of the range of the DCF transmitter, the watch may not be able to receive time information and therefore is unable to complete the reception successfully. For these cases, your radio controlled watch has special software to permit manual setting.

#### ■ Setting the watch manually

Once the hands have reached the 12 o'clock position, press corrector T1 for at least three seconds. All hands will move to the 12 o'clock position again. The LCD shows the minute [00] and [1] in order to confirm the manual setting mode. Now shortly press corrector T2 for the hours set mode [H] to be activated. By pressing and holding corrector T2 you can now set the hands to the current time displayed by any other watch; the minutes and hours hands will move fast forward. Setting the minutes should be done at a full minute to allow a synchronisation to the second with the reference watch. In order to confirm and to quit the manual setting mode press corrector T1 briefly. A [1] appears permanently in the display to denote the manual setting. At the start of each full hour, despite of the manual setting, your radio controlled watch will attempt to receive a DCF signal. If radio reception succeeds, your watch will return to displaying the current radio controlled time.

#### ■ Functions of your radio controlled watch

- *Synchronisation of the seconds* Daily synchronisation of your radio controlled watch takes place between 2 a.m. and 3 a.m. The watch's receiver is activated during this time and it synchronises to the precise second with the radio controlled time. In the event that the radio reception is disturbed at that time, the watch will continue to run with great precision as a quartz watch. It will be updated during the next synchronisation with radio controlled time to run on the precise radio controlled time again.

- *Manual transmitter call*

In order to synchronise your watch manually using the DCF transmitter press and hold corrector T1 for at least 3 seconds. The hands will now move fast forward up to the 12:00 o'clock position. The numbers in the display change to [00] and the radio tower starts to flash. In case the hands should not reach the 12 o'clock position you may also correct this as described in section **“Restart after replacing the battery”**.

For a safe radio reception hold your watch steady and keep it away from sources of interference such as TV sets, computer, telephones and similar devices. After a couple of minutes the reception is complete and your radio controlled watch shows the current time.

- *Adjusting the hands*

In order to correct the position of the hands manually please refer to the instructions in the section **“Restart after replacing the battery”**.

- *Setting summer / winter time*

Your watch will be adjusted automatically to summer / winter time in the hour between 2 a.m. and 3 a.m.

- *Low battery indicator*

Your watch indicates that the battery must be replaced by a flashing date in the LCD and by stopping the seconds hand on the 12 o'clock position. This informs you that soon you should have the battery changed by a specialist retailer. During this time, time zone setting and manual transmitter calls are disabled. Please have the battery changed within two weeks in order to avoid damages to the watch due to battery leakage.

Please refer to the section **“Restart after replacing the battery”** to set your watch again.

- *Resetting all settings*

In the event of faults you may reset all settings made by pressing corrector T1 and T2 simultaneously for >3s. The LCD display and all time information as well as the settings made are deleted. The LCD shows an “H”, as after changing the battery. For resetting your watch please proceed as described in the section **“Restart after replacing the battery”**.

- **Technical data:**

- 3-hand analogue movement with LCD display
- Reception frequency: 77.5 kHz
- Synchronisation of time at least 2x at night
- very precise accuracy outside the range of the DCF transmitter
- Time zone setting worldwide (full hours only)
- Option for manual setting
- Battery “CR 1620”
- Theoretical battery life approx. 2 years

As of 31 January 2012