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GARDÉ Uhren und Feinmechanik Ruhla GmbH

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Operating instructions: Ruhla rc-watch analog-digital “Business Alarm”

Features / watch functions:

- 3-hand analogue movement with 2 LCD displays
- 2nd time/time zone, stopwatch, alarm, calendar week/year, day/date
- Automatic time setting and correction with the DCF 77 transmitter
- Automatic summer/winter time setting
- Digital and analogue time zone adjustment
- Manual synchronisation
- Manual correction of the hands
- LCD battery status display
- Waterproof to 10 atm



➤ Function:

Your radio-controlled watch is synchronised to the second each night between 2 and 3 a.m. In the event that there is no signal at the time, your watch will continue to run as an extremely precise quartz watch. The internal time and the hands are synchronised as soon as the DCF signal becomes available.

➤ LCD displays:

The large LCD display in the lower section of the dial displays all of the functions of your watch. The upper, smaller LCD displays the calendar and week day; in business function, it switches to the digital time [h – min]. You select the various functions of your watch by pressing briefly on the button [mode].

2nd time/time zone, stopwatch, alarm, calendar week/year and day/date. On delivery, the 2nd time display in the LCD is always the current, analogue time. The following sections provide an extensive description of how to make settings and what functions are available.



2nd time/time zone

Stopwatch

Alarm



Calendar week/year

Day/date

➤ 2nd time/time zone:

▪ Setting a second time zone for foreign travel

On delivery, the second, current time [h-min-s] is always shown in the large LCD display. Press briefly on the button [A], and the seconds' display switches to the time zone display [14:45 00]; [00] is CET. In order to set a time zone (when abroad), press and hold button [A] for 8 s until the hour display and the time zone display flash. You can now move to the desired time in the LCD: scroll upwards by briefly pressing button [A] and downwards by briefly pressing button [B] [09:45 05]. The time zone display now shows the set time zone. The LCD display then switches to the new time [17:45 59]. In view of the fact that the time when abroad usually differs to the time at home by full hours, settings take place accordingly in full hours.

Please note that there is no radio reception of the DCF signal when setting the time zone!

▪ Transfer of the digital time zone time to the analogue time:

If you wish, you can switch the digital time to analogue time. Simultaneously press buttons [A and B] for longer than 3 s, and the hands will rotate rapidly to the time displayed in the LCD.

Please take note that the date display is always adjusted to suit the analogue time display.

▪ Resetting the time zone:

In order to reset the time zone [00] and the time, please proceed as described in sections **Setting a second time zone for foreign travel** and **Transfer of the digital time zone time and the analogue time**.

➤ Stopwatch function:

The stopwatch function [00.00_{00.0}] is selected by pressing the button [mode] – a runner is then displayed in the LCD, next to the battery symbol. To start and stop the stopwatch, press button [A]. You can take intermediate times by pressing button [B] and then return to the stopwatch function. After taking the time using button [A], you can reset to [00.00_{00.0}] by pressing button [B].

➤ **Alarm function:**

▪ **Setting the alarm time**

The alarm time can only be set in alarm mode. To get there, repeatedly press the button [mode] until the LCD displays [7:00 AL]. Now hold button [A] for longer than 8 s until the bell appears in the LCD, a signal sounds and the hour display flashes. Now use button [A] to set the desired alarm time. In order to set the minutes, press once on button [B] - the minute display flashes. Use button [A] to set the minutes. In order to save the set alarm time, press the button [mode]. When activated (bell in the LCD in all watch functions), the alarm signal will then sound. The alarm sounds for a maximum of 30 s and can be shut off in any mode using the buttons [A], [B] or [mode]. The alarm sounds at the same time every 24 hours.

▪ **Activation and deactivation**

The alarm can only be activated and deactivated in alarm mode. To do this, hold button [B] for longer than 3 s. There will be a brief confirmation signal and the bell will appear in the LCD. Deactivation is carried out in the same way as activation. The alarm function is deactivated when a longer signal sounds and the bell disappears.

➤ **Calendar week/year:**

Select the current calendar week, the year and the weekday with calendar day by brief, repeated pressing of the button [mode]. The calendar and weekday are displayed in the upper LCD, while the calendar week and year are shown in the lower LCD.

Day / date display:

The calendar day and weekday are always displayed in the small, upper LCD in time/time zone mode, stopwatch mode, alarm setting mode and in business mode (weekday-CW-year). When the day/date mode is activated, the display in the small LCD switches to the time (h-min) and to the weekday and date in the large, lower LCD.


➤ **Radio reception status display:**

The radio reception display can only be shown in the lower LCD in time/time zone mode (factory setting) by pressing button [B] for longer than 5 s. The LCD display switches to time zone display [00] in the seconds' display and the radio mast display (constant or flashing). A constant radio mast confirms that the last radio reception was successful. A flashing radio mast denotes disturbed radio reception – the watch was not synchronised. At this moment, the watch's internal receiver is activated and the watch attempts to locate the DCF signal. During this, the flashing radio mast is hidden after approx. 100 s. Nevertheless, the watch remains (max. 7 minutes) in radio reception. Once radio reception has been established successfully, the radio mast will be displayed as a constant symbol in the LCD for 60 s after pressing button [B].

➤ **Switch in summer/winter time:**

When the clocks move forwards or backwards in summer/winter time, your watch will be switched automatically to the correct time between 2 and 3 a.m.

➤ **Summer time display:**

The summer time display is shown in the large, lower LCD display during  summer time.

➤ **Manual correction of the hands:**

If it is necessary to set the watch manually (hands do not display the correct time, despite radio reception), first set [h-min-s] in the lower LCD by pressing the button [mode]. Now press and hold button [B] for longer than 8 s until [AD 12] appears in the LCD. Once the button has been released, the hands rotate rapidly and automatically come to a halt.

You can now move the hands as follows:

- Press button [A] briefly = single step
- Press button [A] for longer = increased hand rotation speed
- Hold button [A] = switch to rapid hand movement – end by briefly pressing button [A]

If you have switched the hands to rapid rotation, you must stop them sufficiently in advance [11:59 50] in order to move the hands in single steps to the precise 12 o' clock position. Once the hands have stopped, the LCD flashes the [RC] symbol and the time symbol signal is received. When the radio signal has been received successfully, the hands move rapidly to the current time.

➤ **Restarting after replacing batteries:**

All segments [888888] are displayed in the lower LCD after the new battery CR1620 has been inserted. In order to set the hands to the 12 o' clock position, please proceed as described in the section *Manual correction of the hands*.

Battery status display:

The battery symbol is always displayed in the lower LCD. If the battery symbol flashes, it indicates that the battery must be replaced. In order to prevent batteries leaking and damaging your watch, please make sure you have the battery replaced by a specialist dealer inside of 2 the next weeks. To reset your watch, please refer to item:

Restart after replacing batteries

➤ **Replacing the batteries (CR1620):**

Always take your watch to a specialist dealer to replace the batteries.

Only use new, high-quality batteries of the type "CR1620". Failure to adhere to this stipulation can severely damage your watch, as the batteries may leak.

Have spent batteries removed immediately from your watch in order to prevent damage.

Note:

Please adhere to official regulations governing the disposal of batteries!

Do not dispose of batteries in domestic waste. Please return spent batteries to your local dealer or a hazardous waste and battery collection point. Spent batteries must never be opened, short-circuited or thrown into a fire.

➤ **Linked strap:**

You need special tools to adjust the titanium strap. Please contact a specialist dealer in order to prevent damage.