ERWIN SATTLER
MÜNCHEN

ROTALIS 24

Precision watch winder

Installation of the Rotalis 24

The Rotalis 24 is only to be installed by qualified pesonnel. For any question, please contact your local jeweller or the Erwin Sattler company directly.

Starting up your Rotalis 24

Please plug in the power supply. After connecting the Rotalis 24 to the power supply, the watch winder units start automatically.

The watch winder now runs with the preset programming. With this programming, more than 80% of all automatic movements are wound up reliably and gently without the need for further settings.
The software of the Rotalis 24 is designed in such a way that it follows the daily routine of a watch wearer and thus has an avtive and a sleeping phase.

With the »initial start-up« you can specify the desired daily period in which the watch winder should turn. For example, if you start (plug in the power supply) the Rotalis 24 for the first time at 8 a.m., the clocks start moving every day from 8 a.m. for 16 hours. From this point on, the watch winder units will then function from 8 o'clock in the morning to 12 midnight every day so that they can then have a sleeping phase lasting 8 hours. During this sleeping phase, the mainspring in the wristwatch is slackened to allow the watch to function in an optimum operating range.
To change the start time, switch off your Rotalis 24 and switch it on again at the desired start time. Or use the »Restart« function in Smart Interface.

In order to optimally wind the wristwatch, we recommend programming the winder individually.

Open the glass pane

The Rotalis 24 is equipped with 1 glass pane made of mirrored saftey glass. The glass pane can be opened with:

1. Fingerprint reader
2. With the including key, you can find the lock behind the sliding panel at the right side (see at the following page)
3. Smart Interface

Functions behind the left sliding panel

Upper button

To close the window hold on tight the upper button, until the glass pane has completely closed.

Lower button

Open the flap:
Press and hold the button until a click is heard.
Caution: Do not drop the flap downwards.

Functions behind the right sliding panel

Fuse in case of failure

Round black plastic cover: The holder for the fuse of the Rotalis 24 is located here. In the event of a fault, please check the fuse and replace it with a new one if necessary with a micro fuse: M 5A/250V.

Lock

Opening the glass pane with the help of the key, turn to the right.

Open the glass pane with the fingerprint reader

The glass pane can only be opened by means of a fingerprint reader if the corresponding data of the finger have already been stored.

To open the glass pane, pull an already stored finger quickly over the fingerprint reader with low pressure. After successful reading, the glass pane opens completely.

A detailed description of all functions of the fingerprint reader, especially the storing of new finger data you will find at the following pages.

Inserting watches

Before inserting the wristwatches, please make sure that the motor is stopped. Now you can place the watch on its watch holder. To remove the watch from the watch winder unit, grab the watch holder at both levers and pull off from the holding mechanism.
The watch holders are available in three sizes for different wrist sizes.

Now you can push the watch with closed bracelet over the watch holder. For better handling the watch holder can be compressed. In order to secure the watch, the watch holder will expand to the width of the wristband.

Replace the watch holder in the housing of the winder.

Please make sure that the watches are always set at 12 o´clock position when inserted.

They will return to this position after each winding interval.

If an individual adjustment to the respective movement is to take place, this can be done by using the integrated software (SMART INTERFACE).

How to use the software is described in chapter - The ‘Smart Interface’ software.

Technical data: Rotalis 24

Case	Height: 88,5 cm (with extended panes 127 cm), Width: 120 cm, Depths: 20 cm Indirect illumination, separately switchable and dimmable with remote control
Crystals	Safety spyglass, mirrored
Winders	24 precision watch winders, individually programmable via Wi-Fi, 12 o’clock position
Drive	24 high-power motors
Ball bearings	144 stainless steel precision ball bearings
Clock	Navis Quartz, milled Roman indices with backlit
2 Instruments	Thermometer, Barometer, all with black or natural anodized dials
Fittings	Behind the lower mirror flap 2 removable watch holder inserts
Power supply	110–230 V

Nautical instruments

Barometer

Disregard the words STORMY, RAIN, CHANGE, FAIR and DRY as these are only traditional zones on a barometer dial. Your barometer indicating hand will never move all the way to RAIN to predict rain or to STORMY to predict inclement weather. The normal operating range of movement for your barometer indicating hand is from 1000 to 1030 hPa.

The numbers 1000, 1010, etc. provide the air pressure based on at sea level, with the meteorologists work. The average air pressure is 1013.3 hPa and means a variable weather conditions.

The changes of the air pressure are displayed by the dial hand.
Tap the instrument lightly to release any latent action. Adjust set hand directly over the indicating hand. This is your momentary reading. At a later period you will be able to notice in what direction the indicating hand has moved since the last setting.

If it moves to the right you have a rising barometer which usually means a change for the better or continued good weather. If the reading is to the left you have a falling barometer, which usually means a change for the worse. A steady barometer means no change. Readings obtained from your barometer indicate weather conditions that may prevail with in the next 24 to 48 hours, providing wind direction and velocity remain the same as when readings were obtained.

Adjustment of the barometers

From the factory, the barometer is supplied with setting at sea level (Normal-zero). In many cases, therefore, it must be retrofitted to the level set (up to 1100 m) of your residential location.

The indicating hand of the barometer may be adjusted by turning the set screw in a small opening at the bottom of the instrument. A small screw driver may be used to turn this screw. The correct sea level reading can be obtained from your Weather Bureau or television weather forecasts.

Thermometer

It is very rare that these require any attention or adjustments. Should, for some reason, recalibration be needed, this can be carried out as follows:

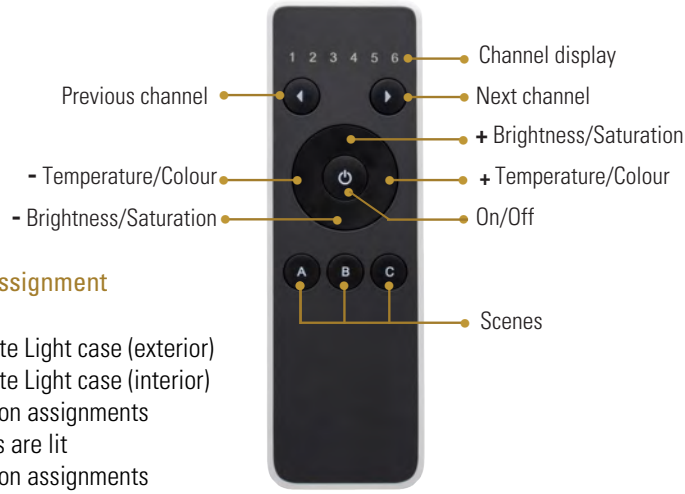
Using a small screwdriver, a recessed/adjustment slot can be found at the back of the Thermometer. Set against another Thermometer with a known accuracy.

Navis Quartz

Setting the time

Turn the bezel counter-clockwise until you feel resistance and then pull it forwards to remove. Lay the bezel backside down. to set the time, carefully twist the minute hand.

Remote control for LED lighting



Channel assignment

1. Clock
2. Ambiente Light case (exterior)
3. Ambiente Light case (interior)
4. No button assignments
5. All LEDs are lit
6. No button assignments

The following functions are available

Change brightness/colour saturation

You can adjust the brightness by holding down the 'Up' and 'Down' buttons. Pressing 'Up' increases the brightness, whilst pressing 'Down' decreases it until the light switches off.

To adjust the colour saturation, press and hold the 'Up' button twice to increase the colour saturation. If you press and hold the 'Down' button twice, the colour saturation will decrease.

Change colour temperature/colour tone

You can change the colour temperature by holding down the 'Left' and 'Right' buttons. Pressing 'Right' sets a colder colour temperature, whilst pressing 'Left' sets a warmer one.

Scenes

You can use the scene buttons A, B and C to save and recall three personalised scenes.

Accessing saved scenes

Press button A, B or C to call up a scene that has previously been saved for that button.

Save new scenes

If you press and hold a scene button for more than 2 seconds, the current lighting settings will be saved to that button.

Care and Maintenance

To ensure that your Rotalis watch winder provides you with many years of enjoyment, please observe the following care instructions.

The high-quality watch winder should be protected from dust particles. We therefore recommend that you never leave the case open for long periods of time to prevent dust from settling inside.

Please do not clean the housing with harsh or abrasive cleaning agents, but only with a damp, soft cloth that has been lightly moistened with a lukewarm mixture of water and neutral soap, if necessary.

FAQs

If the watch winder units do not rotate after being connected to the power supply:

- No programming of the watch winder units is available. Transfer the data of the watches used using the enclosed Smart Interface software.

If a malfunction cannot be resolved satisfactorily, please contact your dealer or the Erwin Sattler service department.

Environmental note

This product has been manufactured from high-quality materials and components that are suitable for recycling and can be reused.

The product must therefore not be disposed of with normal household waste at the end of its service life, but must be taken to a collection point for the recycling of electrical or electronic equipment. The symbol below, found on the product's rating plate, in the operating instructions, or on the packaging, indicates this.

Please contact your local authority for information on local collection points. By recycling old appliances, you are making an important contribution to protecting our environment.

The Software »SMART INTERFACE«

Starting the watch winder

The "SMART INTERFACE" provides the user interface through which all functions of your watch winder can be controlled.

Before this can be used, the following settings must be made:

1. Connect your Wi-Fi enable device (Smartphone, Tablet, PC etc)
   with the watch winder by selecting the Wi-Fi network (SSID),
   e.g. »ES_Rotalis_035«, in the Wi-Fi settings of your device.

The network name is made up as follows:
ES_watch winder short name_serial number

Watch winder short names:	Rotalis	15	ES_ROTALIS _ (Serial number*)
	Rotalis	24	ES_ROTALIS _ (Serial number*)
	Rotalis	30	ES_ROTALIS _ (Serial number*)
	Rotalis	60	ES_ROTALIS _ (Serial number*)

(*Serial number: see certificate)
It will take up to one minute to establish the connection.

2. At the prompt, enter the required password
   Now you should be connected to the watch winder network

3. Start your browser (Microsoft Edge, Mozilla, Safari, etc.)
   and enter the IP address of the watch winder.
   It is as follows:192.168.2.1/index.php

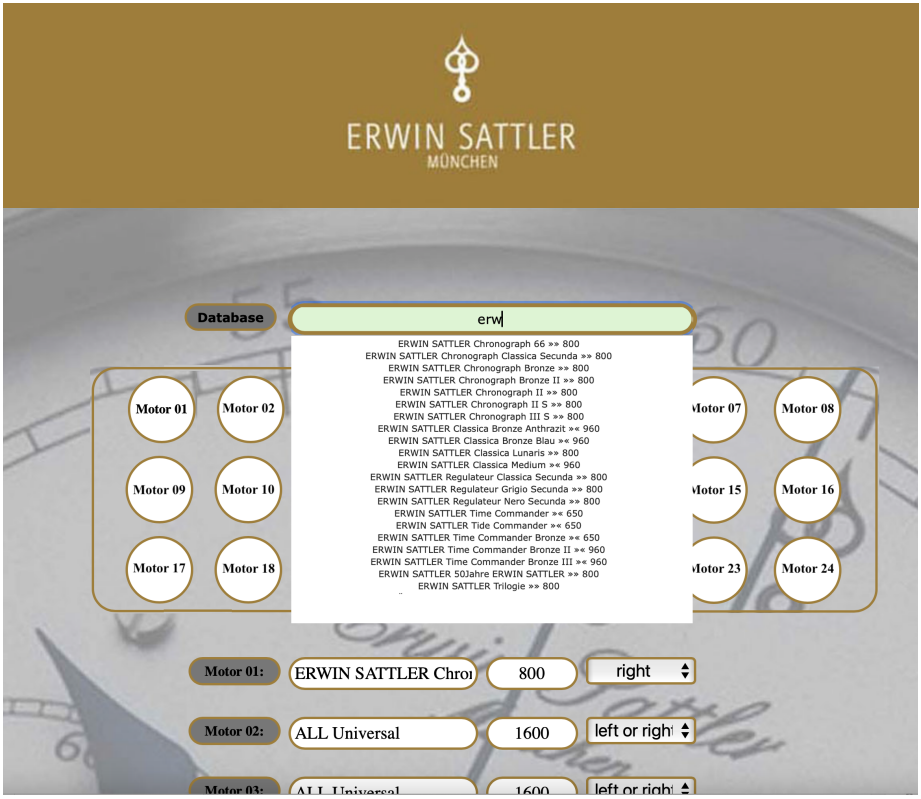
4. Open the search function of your browser

The image of the start screen should appear according to your watch winder model.

This interface shows a clear overview of all functions. For ease of use, functions that are not required are only shown when necessary.

The following functions can be selected directly

1. **Database:** Enter the first three letters of the desired watch brand, e.g. ERW, the automatic sort function is started and all watches beginning with the relevant letters are listed.



2. Motor 01 – Motor 24

the values selected from the database can be assigned to the relevant motor here.

Rotalis 24:

The watch winders are divided into three rows on a panel and arranged as follows:
each row from left to right

e.g. top left = Motor 1
bottom right = Motor 24

3. Motor 01 – Motor 24, text and the direction of rotation (left, right, left or right, off) and tpd (turns per day) can be changed here manually.

4. Light, the light of the watch winder can be set to on, off and interval (the light switches on automatically when the winders are turning) here.

5. Restart, this button can be used to preset a desired start time for the watch winder, and the Wi-Fi module can be switched off if active Wi-Fi is no longer required after the data transfer.
   Please note that data transfer is not possible with the Wi-Fi module switched off. This can be reactivated after a brief interruption in voltage (disconnect and reconnect the power pack).

6. Open, the watch winder glass pane(s) of the Rotalis 15 to 60 models can be opened via Wi-Fi here.

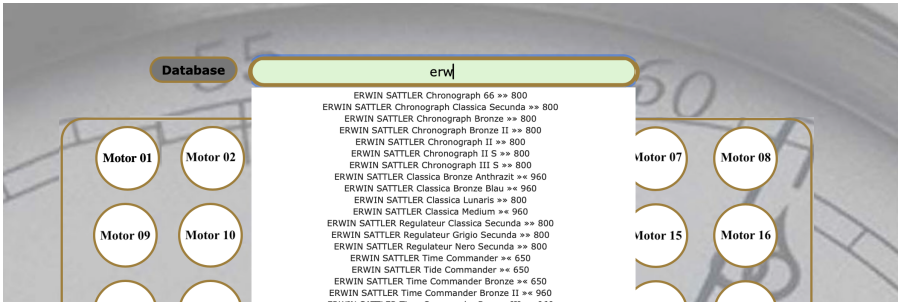
7. Data, with this button, the settings are transferred to the watch winder and saved.

8. **Attention:**
   If the settings are changed and the data transfer has not been completed, the data in the control unit may not be the same as is shown on the screen.

Setting the Rotalis by using a practical example

Activate the »Database« field, the keyboard for your smartphone or tablet PC is shown automatically.

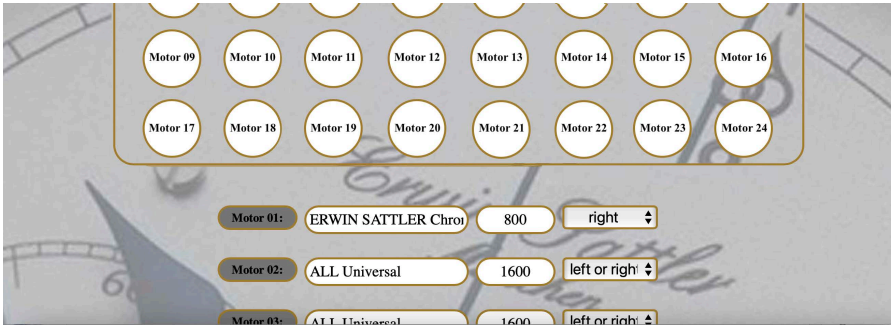
Enter the first three letters of the desired watch brand, e.g. ERW, the automatic sort function is started and all watches beginning with the relevant letters are listed.



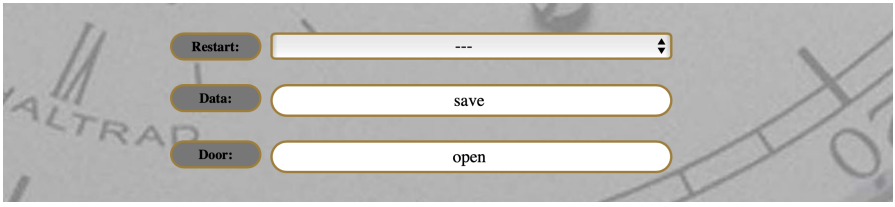
Select the desired watch

The selected watch is copied into the »Database« field and can now be assigned to any motor by pressing the »Motor 01« – »Motor 24« button (in the example, Motor 01 is being edited). The data for the watch now includes a description, tpd (turns per day and direction of rotation in the relevant field.

Repeat this process until all motors have been programmed.



Once all watches have been set, you can transfer the data to the Rotalis by pressing the **»Save«** button.



Manual – Fingerprint reader

Overview of all functions

Masterfinger enrollment	Define Masterfinger	Deliefery condition → 6 x scan Masterfinger
Userfinger enrollment	Enrollment of new users in combination with an ID	M → E → ID → OK→ scan userfinger → M
Open drawers		Scan userfinger
Delete userfinger	Distinct deletion via ID	M → D → ID → OK → M
Delete all fingers (Reset)	Reset to deliefery condition	DA → Mastercode → OK

M = scan Masterfinger

Caution:
Every time you press any button on the remote control, the green LED of the fingerprint reader must light up (to check a correct connection)!

Before start-up

What does ID mean?

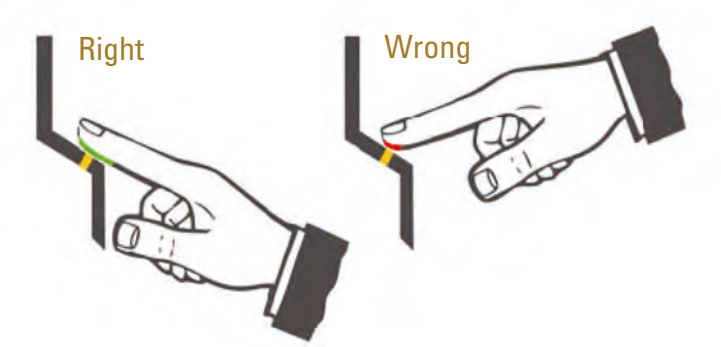
A uniqe ID must be assigned to each new unser finger when it is taught in. This has a maximum of 3 digits and is entered by pressing the corresponding digits on the keyboard.

Which finger should be used?

- Fingertips with many scars, injuries or an extremely poor structure are not suitable for »user fingers«
- Fingers that are prone to be injured (e.g. while working manually) should not be used
- If the fingers are very strong, the forefinger or little finger can be a good choice
- If the fingers are very thin or of children, the thumb should be preferred
- The fingertips of the left hand of left-handed persons are usually more nagged than those of the right hand of right-handed persons
- It is recommended to save 2 different fingers for each person to still have one available in case of an injury
- If only a few persons use the device, more fingers for each person could be acquired because it figures out later which finger is the favorite

Please notice

- The blue LED indicates that the device is powered on (blue LED is on permanently)
- Some useful hints for getting better fingerprint when scanning the finger over the sensor:
  Slide your finger with a constant speed and slightly pressure over the sensor.
  The area of the finger that contacts with the line sensor should be as large as possible (refer to the figure below).



All functions in detail

1. Masterfinger enrollment

After switching on for the first time or restoring the delivery settings, a master finger must first be programmed 6 times (scan the same finger 6 times).
Delivery settings: red, green and blue LEDs light up continuously
Swipe your master finger over the sensor; the red and green LEDs will briefly go out and then light up again constantly.
Once the master finger has been successfully programmed 6 times, the green LED will flash briefly to confirm completion.
Once the master finger has been programmed, the device is ready for operation. User fingers can now be programmed. The blue LED lights up continuously.
If a finger was swiped over the sensor during the programming process and was not accepted as a master finger, the red and green LEDs will continue to light up. Simply repeat the master finger programming process.
Timeout: after 60 seconds: Do not allow more than 60 seconds to elapse between individual master finger programming processes, otherwise the programming must be repeated.

Alternative to the master finger:
Enter the master code on the remote control and press OK.
Master code: can be found on the back of the remote control.

2. Enrollment of userfingers associated with an ID

Please note: Master fingers cannot be programmed as user fingers!

- The user finger programming mode is activated by scanning the master finger; the red and green LEDs light up briefly.
- Press button »E« (Enrollment) on the remote control.
- Enter an ID between 1 and 150 using the remote control.
- Press the OK button to confirm.
- Register one or more user fingers (swipe them over the sensor several times).
- If the programming is successful, the green LED lights up; if the quality is insufficient, the red LED lights up.
- Before scanning your finger again, always wait until the green LED goes out. It is recommended that you scan each user finger 6–10 times to optimise the recognition rate.
- The programming process is completed by waiting approximately 7 seconds (until the red and green LEDs flash three times to confirm).
- Timeout 10 seconds: after opening the programming process with the master finger, do not allow more than 10 seconds to elapse, otherwise the programming must be repeated.

Example:
Scan master finger -> E -> 8 -> OK -> swipe your right index finger (user finger) across the sensor 6 times -> wait approx. 7 seconds

3. Watch winder units / Glass panels open

With the user finger:

Scan user finger

- if the finger is recognised, the green LED lights up and the relay is switched
- if the finger is not recognised, the red LED lights up

With the user code:

- Enter the user code into the remote control and press OK.

Configure the user code:

Master finger scan -> Button E -> User-Code (6-digit) -> OK -> User-Code (Repetition) -> OK
If master finger recognition is difficult:

- Enter master code -> OK (as an alternative to master finger)

4. Delete individual user fingers

- Scan master finger, red and green LEDs light up briefly
- Press button D (Delete) on the remote control (bottom left), green LED lights up briefly
- Enter the ID of the user finger to be deleted -> OK, green LED lights up briefly
- The delete process is completed by scanning the master finger again; the red and green LEDs light up briefly

5. Delete all fingers (incl. masterfinger)

Delete with the master finger

- Scan master finger three times.
- After the second scan, the red LED flashes to indicate that the deletion process will start with the next scan.
- After the third scan, the green LED flashes to indicate that the delete process is in progress.
- Once all data has been deleted, the fingerprint reader will be in its factory default state and the red, green and blue LEDs will be lit continuously.

Delete with the master code

Master code: see back of remote control

- Hold the infrared remote control directly in front of the blue LED:

Enter: DA -> Mastdercode -> OK
The fingerprint reader will then return to its factory default state, the red, green and blue LEDs will remain lit.

If there is no master finger/master code,
the device can only be reset to default setting in the interior of the watch winder. This procedure should only be carried out by qualified personnel.

6. Setting the relay switching time

Caution: only necessary if all fingers, including the master finger, have been deleted.

- Scan master finger
- Enter relay assignment: R1
- Enter digit(s) for the relay switching time in seconds (1 to 65 seconds)
- Confirm with the OK button

Example:
Scan master finger -> RT -> R1 -> 17 -> OK, the relay switching time for relay (R1) is changed to 17 seconds.

7. Adjusting the sensitivity of the fingerprint reader

Scan master finger -> Level input (between 1 and 5, where 1 is the lowest level) -> OK

Example:

Master finger -> 3 -> OK, the sensitivity is now set to level 3 out of 5.

8. Lock mode (lock/unlock the fingerprint reader)

Blocking:
If an unregistered finger is swiped over the sensor four times in succession, the red LED lights up and the finger sensor switches to lock mode. This prevents unauthorised persons from attempting to gain access undisturbed over a longer period of time.
The lock mode is initially limited in time; after a further 5 failed attempts, the lock time is extended (lock intervals: 1 minute, 5 minutes, 30 minutes, 1 hour, then permanent lock).

Unlocking:
Lock mode can be ended at any time by swiping a registered finger (master or user finger) once over the sensor.

9. Check ID

Checking whether an ID has already been assigned

Press the OK button -> enter the ID to be checked -> press the OK button

- If the ID has already been assigned, the red and green LEDs light up.
- If the ID has not yet been assigned, only the red LED lights up.

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