

Standard timer with display

Art. No. : ..1750D..

Operating instructions

1 Safety instructions



Electrical devices may only be mounted and connected by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock. Always disconnect before carrying out work on the device or load. In so doing, take all the circuit breakers into account, which support dangerous voltages to the device and or load.

These instructions are an integral part of the product, and must remain with the end customer.

2 Device components



Figure 1: Display and operating area

- (1) active functions
- (2) Time of the next action or current time of day
- (3) Type of the next action
- (4) Operating area

Icons in the display

AUTO: Automatic operation is active, next switching time is displayed for 2 minutes

ASTRO: Astro function is active

LOCK: Disabling function is active

⤴ or ⤵: Displays the direction of the next switching time. Flashes when controlling the insert

Icons of the operating area (4)

⏪: Step back

✓: Confirm inputs

AUTO: Switch between manual operation and automatic operation

▼ or ▲: Operation of the insert and navigation in the menu

□: Call up and terminate the programming menu

3 Function

Intended use

- Manual and time-controlled operation of Venetian blinds, shutters and awnings
- Operation with Venetian blind insert from the LB management

Product characteristics

- Current time can be saved as switching time, quick programming
- Automatic summer/winter time changeover, can be switched off
- Switching at sunrise and/or before sunset (Astro function) adjustable for 18 countries
- Astro time shift for sunrise and sunset
- Disabling function
- Display switches off after 2 minutes, permanent indication of the current time possible
- Programming of one up time and one down time each for the parts of the week Mo-Fr and Sa+Su
- Ventilation position of the blind/shutter can be saved

Behaviour after a mains voltage failure

Voltage failure less than 4 hours

- All data and settings are preserved
- Missed switching times are not performed later

Voltage failure greater than 4 hours

- Year flashes and no switching operations are executed
- Date and time must be set again
- All switching times are preserved

Default setting

- Switching times:
 - ▲ 07:00, Mo - Fr
 - ▼ 21:00, Mo - Fr
 - ▲ 09:00, Sa - Su
 - ▼ 21:00, Sa - Su
- Astro function is active with times for Germany (+49)
- Automatic mode is active
- Automatic summer/winter time changeover is active

4 Commissioning

Set date and time

During the initial commissioning, a reset or a voltage failure of more than 4 hours, the year flashes in the display and the following data must be set.

- i The times are changed in steps of 5 by pressing ▼ or ▲ for a longer time.
 - Change the year with ▼ or ▲ and confirm with ✓. After that, month, day, hour and minute flash successively.
 - Change the data with ▼ or ▲ and confirm with ✓. + 49 flashes in the display, the country code of Germany.
 - Confirm with ✓ or select another country code with ▼ or ▲ and confirm with ✓.

The Astro times of 18 countries can be loaded via the country code. The country list can be found on the Internet in the instructions for this device.

YES flashes in the display for the automatic summer/winter time changeover (ST / WT).

- Confirm with ✓.

- i** Changing to **No** deactivates the automatic summer/winter time changeover.
The setting is completed.




Country code

Astro calendars for 18 countries are stored in the cover. Each adjustable country has an underlying reference location that the Astro times refer to. If your own location is far away from the reference location, it may be useful to enter an Astro shift or neighbouring country.

Country code	Country (reference location)	Country code	Country (reference location)
+49	Germany (Kassel)	+48	Poland (Lodz)
+31	Netherlands (Utrecht)	+7	Russia (Moscow)
+43	Austria (Liezen)	+380	Ukraine (Kiev)
+32	Belgium (Brussels)	+420	Czech Republic (Brno)
+34	Spain (Madrid)	+39	Italy (Rome)
+47	Norway (Oslo)	+33	France (Bourges)
+46	Sweden (Stockholm)	+352	Luxemburg (Luxemburg)
+358	Finland (Helsinki)	+86	China (Shanghai)
+44	United Kingdom (Manchester)	+65	Singapore

Saving the ventilation position



To save and execute the ventilation position, the Venetian blind/shutter must be moved to the upper end position until the flashing arrow switches off automatically.


- From the top end position press and hold down .
The blind/shutter moves in the lower end position direction.
- Additionally press  and hold it down.
The blind/shutter remains stopped, but continues to move after 4 seconds.
- As soon as the desired ventilation position has been reached, release both sensor buttons and press the  button within the next 4 seconds.
The ventilation position is saved. The blind/shutter moves back to the upper end position.

- i** If the ventilation position is saved again, the old value is overwritten.

5 Operation

Moving the blind/shutter

- Press  or  for longer than one second.
The blind/shutter moves in the desired direction to the end position or stops when the button is pressed again.
An arrow flashes in the display in the direction of travel.

- i** If a ventilation position has been saved, the blind stops in the ventilation position when moving down from the top end position (see Saving the ventilation position). Press  again to move the blind/shutter to the lower end position.

Adjusting the slats

- Press  or  for less than one second.

Automatic operation/manual operation

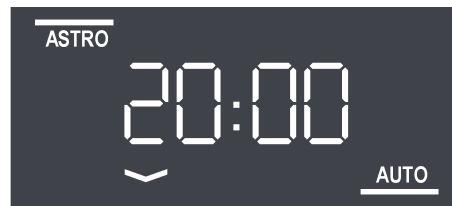


Figure 2: Automatic operation

Pressing **AUTO** toggles between automatic operation and manual operation.

i If all switching times are deactivated, the cover switches automatically to manual operation. In automatic operation (**AUTO**) the next switching time and the type of the next action appears in the display. If the Astro function (**ASTRO**) is active, the Astro time and any Astro time shift that was entered is taken into consideration when displaying the switching time.

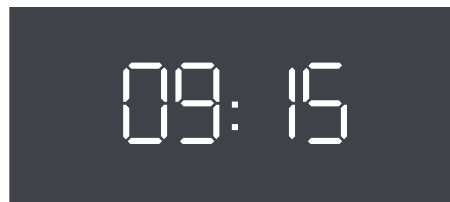


Figure 3: Manual operation

In manual operation, only the current time is displayed. The colon between hour and minute flashes.

Programming menu overview

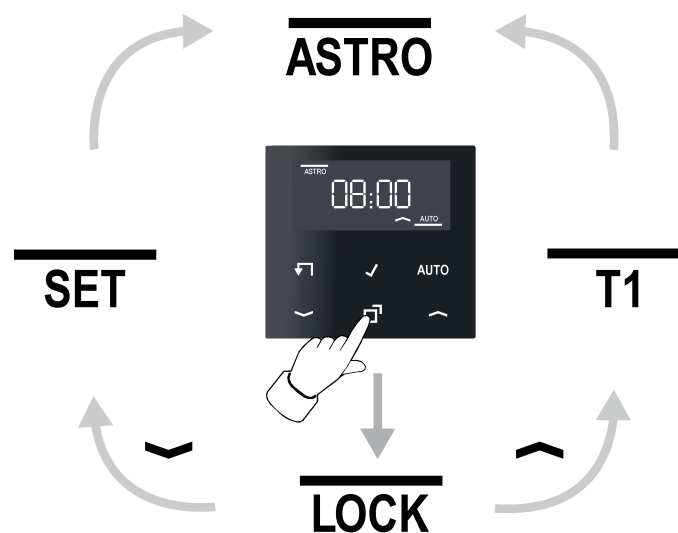


Figure 4: Programming menu

Press **□** to call up or exit the programming menu.
Navigate through the menu with **^** or **v** and confirm the selection with **✓**.



LOCK: Activating/deactivating the disabling function







T1: Changing switching times

ASTRO: Activating/deactivating the Astro function and setting the Astro time shift



SET: Setting date, time, country code and automatic summer/winter time changeover.




Activating / deactivating the disabling function

The disabling function disables extension operation in direction "AB" and deactivates automatic operation. This can be used, for example, as lock-out protection of French windows. Manual operation  is still possible. The operation of  deactivates the disabling function.

-  press.
The line above **LOCK** flashes in the display.
-  press.
Yes flashes in the display.
- ❗ Changing to **No** with  or  deactivates the disabling function.
- Confirm with .
The disabling function is active and **LOCK** appears in the display.
- ❗ Pressing  for more than 4 seconds also activates the disabling function.

Saving travelling times

-  press.
- Select **T1**.
- Confirm with .
The first travelling time appears in the display.














The flashing travelling time can be changed with  or  and saved with . The up and down time for **Mo-Fr** and **Sa-So** can be changed successively. The menu is exited upon saving the last travelling time.

To deactivate a travelling time, set the clock -:- (between 23:59 and 00:00).

- ❗ After one minute without any operation the menu is exited automatically without saving.

Activating/deactivating Astro function, Astro time shift

Astro times represent the sunrise and sunset times in the course of a calendar year. If you want the switching to be executed early at the start of twilight or when it is first dark/light, this can take place with the Astro time shift. The Astro time shift can be entered separately for sunrise and sunset ranging from - 2 hours to + 2 hours.

-  press.
- Setting the **ASTRO**
- Confirm with .
YES flashes in the display.
- ❗ Changing to **No** with  or  deactivates the Astro function. The menu is exited. All saved times are executed at the programmed time.
- Confirm with .
The time shift for the sunrise  flashes in the display.
- Change the value with  or  and confirm with .
The time shift for the sunset  flashes in the display.
- Change the value with  or  and confirm with .
The menu is exited. The Astro function is active and the Astro time shift is taken into consideration during the calculation of the next switching time.

Information on programming the Astro function for blinds/shutters

The Astro function enables automatic opening of a blind/shutter when it gets light and automatic closing when it gets dark. The programmed travelling times limit the travelling time of the blind/shutter (figure 5). The programmed switching time in the morning is the earliest up time of the blind/shutter and the switching time in the evening is the latest down time of the

blind/shutter.

The Astro time is calculated once a week.

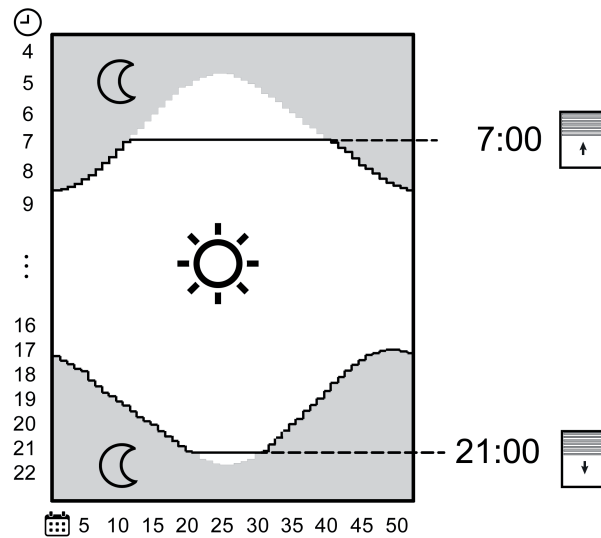


Figure 5: Default setting: Astro function

The Astro times for Germany are shown in figure (figure 5). The blind/shutter is raised at sunrise, but not before 7:00. In the evening at sunset, the blind/shutter is lowered, but not after 21:00.

- i** When using the Astro function, the blind/shutter can be raised in the morning and lowered in the evening. Lowering the blind/shutter in the morning and raising the blind/shutter in the evening is not possible in conjunction with Astro.
- i** If the blind/shutter is to be moved manually in the morning or evening, the time -:- must be set.

Set date and time

- press.
- Setting the **SET**
- Confirm with .
- The year flashes in the display.
- The setting of date, time, country code and automatic summer/winter time changeover can be changed (see chapter Commissioning).

Saving current time as travelling time, quick programming

The travelling times can also be saved without calling up the programming menu. The current time is saved as the travelling time for **Mo-Fr** and **Sa-So**.

- i** The quick programming overwrites the existing up or down times.
 - Press the required direction arrow for the up time or for the down time simultaneously for longer than 1 second.
 - **SAVE** flashes in the display. The current time is saved as a new travelling time.


Displaying current time permanently

The display switches off after 2 minutes without any operation. Alternatively, the indication of the current time can also be activated.

- Press and buttons simultaneously for longer than 10 seconds until the current time appears.
- The device has switched over to permanent indication of the current time
- i** The time indication is deactivated again with the same operating step.
- i** The current time is displayed briefly by pressing or for longer than 1 second.

Reset

The default setting is restored using the reset function.

- Press  and **AUTO** simultaneously for 10 seconds.
A countdown runs in the display. The reset is performed with "0".
The default setting is restored. The year flashes in the display and the date and time must be re-entered.

6 Information for electrically skilled persons

6.1 Fitting and electrical connection



DANGER!

Mortal danger of electric shock.

Disconnect device. Cover up live parts.

Fitting the device

The Venetian blind insert is mounted and connected properly (see instructions of the relevant inserts).

- Fit the frame and cover on the insert.
- Switch on mains voltage.
The year flashes in the display. Date and time must be set (commissioning).

7 Appendix



This device includes an integrated battery. At the end of its useful life, dispose of the device together with the battery in accordance with the environmental regulations. Do not throw device into household waste. Consult your local authorities about environmentally friendly disposal. According to statutory provisions, the end consumer is obligated to return the device.

7.1 Technical data

Ambient temperature	-5 ... +45 °C
Storage/transport temperature	-20 ... +70 °C
Accuracy per month	± 10 s
Power reserve	approx. 4 h
Data according to EN 60730-1	
Action	1.B
Degree of soiling	2
Meas. surge vol.	4000 V

7.2 Warranty

The warranty follows about the specialty store in between the legal framework as provided for by law.

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