Venetian Blind Controller System

Electronic
blind controller 2
1308 ..
with sensor evaluation
1309 ..

GIRA

Gira
Giersiepen GmbH & Co. KG
Elektro-Installations-
Systeme
Postfach 1220
42461 Radevormwald
Deutschland
Tel +49 (0) 21 95 / 602 - 0
Fax +49 (0) 21 95 / 602 - 191
www.gira.de
info@gira.de

10 41 05 32 19/11

Up. Down. Totally automatic.

The Gira blinds control system brings convenience to daily raising and lowering: Your blinds are automatically lowered in the evening and raised again in the morning. The Astro function ensures that the blinds are controlled at sunrise and sunset, but never earlier than 7 a.m. or later than 9 p.m.. Except on weekends. On Saturday and Sunday, the blinds are raised no earlier than 9 a.m., and on Friday and Saturday evenings, they are lowered no later than 9:30 p.m..

This corresponds to the factory setting in program A. Program B is exactly same, except it has no Astro function. C is still available for your own programming, e.g. for holidays. – The factory setting can be changed easily, and the blinds can be operated manually at any time.

The motor running time can be set to ensure that the blinds are not lowered completely. This could be done to leave a gap open for plants in the room or to adjust the slats, for example. If necessary, a random generator can perform tasks at set times with some degree of variation. This gives the appearance of someone being home, even if that's not the case.

The changeover between summer and winter times occurs automatically. Even power failures up to 4 hours are covered. With the Gira blinds control system with sensor evaluation, sensors for sun, twilight, wind and glass breakage can also be connected.

Gira brings more convenience, security and economy into your home. Visit a quality electrical supply company or www.gira.com to learn more about other products from Gira, one of the leading manufacturers of modern electrical installation systems.

Installation

Danger warning

Installation and mounting of electrical devices may only be carried out by a qualified electrician. Failure to observe the installation instructions can result in damage to the device, fire or other dangers. The blinds control system was developed for window blinds and shutters. Other applications (e.g. use with a roll-down gate) could be dangerous. This danger must be ruled out by using additional safety measures (e.g. light barriers).

You must disconnect windows, shutters or blinds with an automatic blinds control system from their supply of electricity before beginning work. Otherwise, a danger of injury is present!

Preparation

A deep flush-mounted box facilitates mounting. Insert, e.g. Art. No. 0398 00. See separate instructions. Use insert with auxiliary unit for group control.

Mounting

1. Mount insert. Connection terminals downward.
2. Provide a disassembly safeguard if necessary: For this purpose, insert the adapter into the insert at the top right and press outward until it engages.
3. Attach the blind clock and frame to the insert.
4. Use a securing screw and attach a cover cap if necessary.
5. For sensor connection only:
   Connect or attach sensor cable to terminal block of insert (two maximum).

Motors from other manufacturers

For long running times (e.g. 6 minutes), the overload protection of the motor may respond, stopping the motor prematurely. Observe the specifications from the manufacturer.

Setting the time and date

If ZEIT flashes, the time and date must be set. – For this purpose:

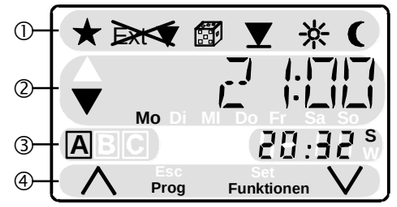
1. Press **Set**.
2. Set the hour with ▲ or ▼ (keep the button pressed for rapid cycling).
3. Confirm with **Set**.
4. Set the minute, month, day and day of the week in this manner. Confirm each with **Set**. The blinds are then raised over a period of 2 minutes.

Changing the time and date / Leap years

Adjust the date in leap years, as the 29th of February is not displayed.

1. Press and hold **Funktionen** until LAUF is displayed.
2. Then press ▲ or ▼ until ZEIT flashes.
   – Continue as described above.
3. Press **Esc** to save and exit.

Overview



① Active functions.

✍ Next action:
lowering, Monday, 9 p.m..

✍ Active: program A.
Time 8:32 p.m., summer time.

✍ Touch functions.

Symbols for active functions

★ Astro function active.

EXT▼ The auxiliary unit signal remains without a function in the downward direction.

Random function active.

▼ An individualised motor running time is set.

Only if sensor evaluation is used

☼ Sun sensor active.

★☾ Twilight sensor with Astro function active in combination.

☾ Delay function: Twilight sensor active.

Flashing display

☼ / ☾ Value reached. – Response occurs after a delay of: 2 minutes for raising, 15 minutes for lowering.

▲ / ▼ Blinds are lowered or raised.

EXTERN Command of an auxiliary unit being carried out.

Manual operation

Press ▲ or ▼ briefly, or longer for continuous operation (longer = more than 1 second).

Switching off automatic function

1. Press **Prog** briefly.
2. Switch to HAND (manual operation) with ▲ or ▼.
3. Confirm with **Set**.
   Sensor operation is now not possible. Messages from any connected auxiliary units retain priority (a wind sensor for example).

Selecting the program

1. Press **Prog** briefly.
2. Select the desired PROGR A, B or C with ▲ or ▼.
3. Confirm with **Set**.

Setting functions/programs

Select function:
- Press **Funktionen** briefly.

Set function:
- Press and hold **Funktionen** for a longer period of time (longer = more than 3 seconds).

Select program A, B, C or HAND (manual):
- Press **Prog** briefly.

Set times:
- Press and hold **Prog** for a longer period of time (longer = more than 3 seconds).

Select the functions or programs with ▲ or ▼. **Esc** and **Set** are displayed during input:

Set confirms and saves your input.

Esc: Cancel without saving and return to the "normal" display.

If no input is made for 2 minutes, the display switches to normal operation. The changes are not saved.

Deactivating automatic summer/winter time changeover

Automatic changeover occurs on the last Sunday in March and October. – To deactivate automatic changeover:

1. Press and hold **Prog** and **Funktionen** simultaneously (approx. 10 seconds) until AUTO is displayed.
2. Switch with ▲ or ▼.
3. Confirm with **Set**.

Factory setting

During the week:

▲	Up, Monday through Friday	7 a.m.
▼	Down, Sunday through Thursday	9 p.m.

On the weekend:

▲	Up, Saturday and Sunday	9 a.m.
▼	Down, Friday and Saturday	9:30 p.m.

These times are saved in program A with the Astro function, or in program B without it. C does not yet contain times. – Changing the settings and times is described further below. The standard running time is set to 120 seconds.

If provided, the sun sensor is set to 25, the twilight sensor to 10 and the indoor sensor to "active".

Reset

Restores the factory settings. Individualised settings are deleted.

1. Press **Prog** and **Funktionen** simultaneously.
   – AUTO is displayed after 10 seconds, and ZEIT flashes after an additional 10 seconds.
2. Then reset the date and time.

Time deviations

If the Astro, random, twilight or delay function is active, the set times can be delayed somewhat.

With the twilight and delay functions, the ⟩ symbol indicates the earliest time for the next action, and ⟨ the latest.

Select function

The following functions can be assigned to each program and manual operation (SONNE function only if sensor evaluation is provided):

EXT AB — Supresses the higher-order lower command from a central control or auxiliary unit. – This ensures that you will not be locked out by your terrace door blinds during a garden party, for example.

ZUFALL — Varies the set times up to +/- 15 minutes. This gives the appearance of someone being home, even if that's not the case. – Not possible with manual operation.

LAUF — Activates the set time for motor running (e.g. to leave a gap for plants in the room) and for slat adjustment (tilts the slats). If the central control specifies a shorter time, it has priority. Set times: See further below.

SONNE — Allows the blinds to be lowered in case of sunlight and raised again for shadow. Requirement: The blind was most recently raised continuously and indoor or outdoor sensors are connected. Activate outdoor sensor: See "Setting functions".
– Not possible with manual operation.

First select a program or manual operation, then assign the functions:

1. Press **Prog** briefly.
2. Select program A, B, C or HAND with ▲ or ▼.
3. Confirm with **Set**.
4. Press **Funktionen** briefly.
5. Choose between EXT AB, ZUFALL, LAUF and SONNE with ▲ or ▼.
6. Confirm with **Set**. – If desired, select additional functions with ▲ or ▼ and confirm with **Set**.
7. Press **Esc** to save and exit.

Combining times and functions

Each time can be combined with the functions named below. Those which are available depend on the time switch and the sensor used:

FIX — The blinds are raised or lowered at the set time.

ASTRO ★ — Due to the electronic calendar, the blinds are raised at sunrise and lowered at sunset. Your time input limits the time period in which the blinds are to be down (e.g. from 9:30 p.m. to 7 a.m.).

DAEMM ★☾ — The blinds are lowered when the twilight sensor signals "dark". The time input limits the time period in which the blinds are to be down (e.g. from 9:30 p.m. to 7 a.m.). – In addition, the electronic calendar ensures that the blinds are raised no later than 2 hours after sunrise, and lowered no earlier than 2 hours before sunset. *

DELAY ☾ — The blinds are lowered when the twilight sensor signals "dark". The time input limits the time period in which the blinds are to remain up (e.g. from 7 a.m. to 9:30 p.m.), even in the dark season. When the days are longer, the blinds are then raised earlier than set in the morning and are lowered later in the evening. *

* As an indoor senor is shadowed by the blinds in the morning, raising can only occur via time-based control. – This restriction is not in effect with the outdoor sensor.

Setting, changing and deleting times

You can set up to 18 times. These can be distributed between A, B and C however you desire. The number of occupied spaces appears in the display during input (e.g. 8/18). Group the settings together in programs. For example, the setting for "normal weeks" under A, "holiday" under B and "holiday at home" under C.

Each time can be combined with the previously named functions.

1. Press and hold **Prog**.
2. Select the program with ▲ or ▼: A, B or C.
3. Confirm with **Set**. – Either a time or NEU appears.
4. Select one of the times with ▲ or ▼ or select NEU for a new one.
5. Confirm with **Set**.
6. To make a change or for new input: Choose between AUF (up) and AB (down) with ▲ or ▼ and confirm the desired one with **Set**. To change or delete, choose between AENDER (change) and LOESCH (delete) with ▲ or ▼ and confirm the desired one with **Set**. – (If deletion was selected, other times can be selected and edited afterward. **Esc** ends the procedure.)
7. Set hours with ▲ or ▼ and confirm with **Set**. – Set the minutes in the same way.
8. Then switch the weekdays, on which the time is to be valid, EIN (on) or AUS (off) individually and confirm with **Set**. – OK appears after "Sunday".
9. Accept the input with **Set** (or reject it with **Esc**).
10. Choose between the available functions, FIX, ASTRO, DAEMM or DELAY, with ▲ or ▼.
11. Confirm with **Set**. – The display flashes.
12. Now press **Esc** to save and exit. – Or: Press **Set**, if you would still like to change these settings, or ▲ or ▼, if you would like to change or enter other times.

If several raising and lowering times are set, the earliest applies.

Setting functions

Every function can be easily adapted to fit individual needs.

Motor running time and position of the slats

Running time: The factory setting is 120 seconds. Extending this effects the up and down directions, while shortening it effects only the down direction. With a shortened running time, the command is only executed if the blinds were last raised continuously.
– The slat adjustment time controls the opening of the ventilation slits for shutters and the tilting of slats for blinds.

Preparation: When the blinds are being lowered, measure the running time between the end position and the desired position with a stopwatch. Then raise them somewhat until the slats are in the desired position and measure this time as well.

1. Press **Funktionen** and hold it. – LAUF is displayed.
2. Confirm with **Set**. – The set running time is displayed.
3. Set stopped running time with ▲ or ▼.
4. Confirm with **Set**. – LAMELL is displayed.
5. Confirm with **Set**.
6. Set the stopped adjustment time with ▲ or ▼.
7. Confirm with **Set** and press **Esc** to exit.

...if an outdoor sensor is connected

1. Press **Funktionen** and hold it. – LAUF is displayed.
2. Select SENSOR with ▲ or ▼.
3. Confirm with **Set**. – INNEN (indoor sensor) or AUSSEN (outdoor sensor) is diplayed.
4. Select AUSSEN with ▲ or ▼.
5. Confirm with **Set**. – LAUF 2 is displayed.
6. Confirm with **Set**.
7. Set stopped running time with ▲ or ▼.
8. Confirm with **Set**. – LAME 2 is displayed.
9. Confirm with **Set**.
10. Set the stopped adjustment time with ▲ or ▼.
11. Confirm with **Set** and press **Esc** to exit.

Correcting the Astro function

The reference point for the sunrise and sunset times is Würzburg, Germany. Deviations of other locations can be corrected. You can, for example, also have the blinds raised a bit earlier so that you may see the sunrise.

1. Press **Funktionen** and hold it. – LAUF is displayed.
2. Select ASTRO with ▲ or ▼.
3. Confirm with **Set**. – The sunrise can be corrected.
4. Using ▲ or ▼, set hours: minutes. (- = blinds lowered earlier, + = later)
5. Confirm with **Set**. – The sunset can be corrected.
6. Using ▲ or ▼, set hours: minutes. (- = blinds lowered earlier, + = later)
7. Confirm with **Set** and press **Esc** to exit.

Attention

The date must be right. Check it!

Changing the threshold value for the sun sensor

Mount and connect sensor before setting it.

1. Press **Funktionen** and hold it. – LAUF is displayed.
2. Select SONNE with ▲ or ▼.
3. Confirm with **Set**. – The current brightness appears at the left.
4. Set the flashing value with ▲ or ▼.
5. Confirm with **Set** and press **Esc** to exit.

Standard values for sun sensor

Display	Approx. Lux
3	1500
8	4800
15	10000
25	21000
40	37000
70	76000

Changing the threshold value for the twilight sensor

First mount and connect the sensor, then set it. This is best done in the evening at the desired twilight.

1. Press **Funktionen** and hold it. – LAUF is displayed.
2. Select DAEMM with ▲ or ▼.
3. Confirm with **Set**. – The current brightness appears at the left.
4. Adjust the flashing value with ▲ or ▼.
5. Confirm with **Set** and press **Esc** to exit.

Standard values for twilight sensor

Display	Approx. Lux
0	6
10	17
30	50
50	80
70	135
90	220
99	300

Notes on sensor operation

Applies for blinds control system with sensor evaluation:

Sun sensor (indoor)

Press sensor onto the window from the inside at the point where the blinds are to stop. If the SONNE function is activated, the blinds are lowered in case of sun until the sensor is shadowed and then raised a bit to release the sensor.

In case of malfunction, check threshold value and reset. The blinds automatically adjust themselves once an hour. They are raised and lowered just a bit here.

Tip: Briefly touching ▲ or ▼ switches the sun sensor off. It is active again after the next continuous raising.

Wind sensor

The wind alarm protects the slats and raises the blinds in case of a storm. EXTERN appears in the display, and ▲ flashes. The blinds are locked. Details: See separate operating instructions.

Glass-breakage sensor

Press the glass-breakage sensor onto the window pane from the inside. If the glass is broken, the blinds close automatically as a protective measure against weather and undesired guests. Display: GLAS. The blinds are locked. – Reset glass-breakage function: Press ▲.

Attention

Never use a glass-breakage and wind sensor together. Despite a storm, the blinds would remain down in case of glass-breakage and could be damaged.

If the top unit is pulled off or the sensor conductor interrupted (e.g. during renovation work): Lower or raise blinds a bit manually so that the sensor is detected again.
Details: See separate operating instructions.

In case of a power failure

SLEEP is displayed in case of a power failure. All settings are retained. If the power failure lasts longer than 4 hours, just the time and date must be re-entered. Everything will then run as before.

Technical data

Top unit supply:	via inserts: 0395 00, 0398 00, 0399 00, 0388 00
Switching time with continuous running:	min. 1 second
Accuracy:	+/- 30 seconds per month
Power reserve:	up to 4 hours (special capacitor)
Moving times:	max. 18 (grouped into three memories)
Random generator:	+/- 15 minutes
Astro program:	can be pushed back 2 hours
Pulse duration ▲:	120 to 360 sec. (factory setting: 120 s)
Pulse duration ▼:	1 to 360 sec. (factory setting: 120 s)
Summer/winter time:	Changed on last Sunday in March and October
Program memory:	3 (A, B, C) for a total of 18 times
Auxiliary unit:	evaluation can be switched off (lock-out protection)
Connection:	Attach to blinds insert
Ambient temperature:	0 °C to +45 °C
Storage temperature:	-10 °C to +60 °C
Factory settings:	see above

We reserve the right to make technical changes for the purpose of improving the equipment.

Acceptance of guarantee

The warranty is provided in accordance with statutory requirements via the specialist trade.

Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/ installation company/electrical specialist trade).

They will forward the devices to the Gira Service Center.