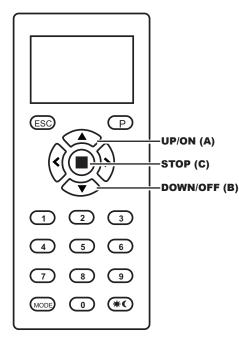
RT39



## RT39E5023-01

Technical data	
Frequency:	868.30 MHz
Radiated power:	0.02 mW
Modulation:	FSK
Coding:	Easywave
Range:	
<ul> <li>free field conditions</li> </ul>	approx. 150 m
<ul> <li>in the building</li> </ul>	approx. 30 m
Channels:	30
Memory slots:	99
Voltage supply:	1 x CR2430 or CR2032
	(The term of the transmitter
	shortened by use CR2032.)
Power reserve:	approx. 1 min
Operating Temperature:	0 °C to +50 °C
Dimensions:	approx. 120 x 52 x 13 mm
Weight:	74 g (incl. battery CR2430)

## Scope of delivery

Hand transmitter incl. timer RT39, operating instructions, battery CR2430

## Intended use

The hand transmitter RT39 may only be used to operate Easywave radio receivers.

The manufacturer shall not be liable for any damage caused by improper or non-intended use!

## Safety instructions



Please read the operating instructions carefully before using the hand transmitter!

Also read the operating instructions for the devices to be controlled!

The automatic control of systems or devices that need to be supervised is not permitted! Do not modify the devices!

Keep the hand transmitter and the batteries away from children!

Have faulty hand transmitters checked by the manufacturer!

# **Factory settings**

**Display-Transmitter with Timer** 

The hand transmitter has been programmed with the following settings:

- Time: 00:00 o'clock, date 01. Jan 2015
- Number of channels: 30
- Temporal offset: sunrise/sunset ± 0 minutes
- The ASTRO function has been programmed
- with the coordinates of Berlin (52° N, 13° E).
- Time zone UTC +1

Switching times have not been programmed. The factory settings can be reset at any time (see page 7).

## Function

The hand transmitter RT39 is used in order to operate Easywave radio receivers, e. g. lights, shutters or blinds, manually or time-dependent. The hand transmitter has 30 radio channels so that radiograms can be sent to control up to 30 Easywave radio receivers individually or simultaneously. The radio channels can be combined in up to 9 groups for the simultaneous control. It is possible to program up to 99 switching times. In case of any voltage supply interruption, the switching times remain programmed.

#### The following operating modes are available:

## 1. Automatic mode:

Receivers are controlled depending on time or with the help of the ASTRO function. The programmed switching times are active.

The following settings are available in automatic mode:

- Day function: switching period 24 hours or week function: switching period one week
- Individual switching times: Different switching times can be programmed for each radio channel, each weekday or several weekdays.
- Intermediate position: Lowering shutters to a desired shade position.

## 2. Manual mode:

Receivers are controlled only by pressing a button.

Manual operation is possible in all of the modes.

#### 3. Automatic mode with partial manual mode:

The programmed switching times as well as the sun protection/twilight mode are deactivated until 00:00 o'clock. All of the radio receivers are controlled manually. At midnight (00:00 o'clock), the clock returns automatically to automatic mode.

#### 4. Automatic mode with holiday mode:

Shutters and other Eaysywave radio receivers are operated with a random temporal offset (max. ±30 minutes) to the programmed times in automatic mode. That way, your house appears to be occupied during your absence.

# Additional functions:

# Sun protection mode:

It is possible to activate or deactivate a sun protection mode that is supported by a receiver.

If a set brightness value is exceeded and the sun protection mode is activated, the receiver will lower the shutter automatically to a shade position. This function has to be supported by the receiver in order to use it.

#### Switching between summertime and wintertime:

The hand transmitter can be switched to summertime or wintertime by pressing only one button.

#### **ASTRO function:**

With the ASTRO function it is possible to operate shutters automatically depending on the current position of the sun.

Shutters can be raised or lowered intentionally at sunrise or sunset.

#### Calculation of the solar time depending on the location:

By entering the geographical coordinates of your location and the current date, sunset and sunrise can be calculated to the minute.

#### **Blocking times:**

It is possible to program the earliest and the latest switching time for the ASTRO function.

The earliest blocking time defines the point of time from which a switching command may be carried out.

If the sun rises/sets before this point of time, the shutter will raise/lower only at the programmed blocking time.

The latest blocking time defines the point of time on which a switching command has had to be carried out at the latest.

If the sunrise has been calculated only after this point of time, the switching command will be carried out regardless of current position of the sun.

#### Programming individual offsets for sunset and sunrise:

It is possible to offset the switching times calculated for sunrise and sunset manually from -120 minutes to +120 minutes.

This temporal offset can be programmed individually in the basic settings (system menu 545) of the hand transmitter for sunrise and sunset. The setting is valid for all of the channels which

use the ASTRO function.

## **Product overview**

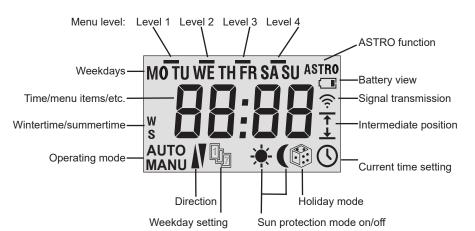
## Display

In standby, the weekday, time, summertime or wintertime and the set operating mode are displayed.

In programming mode however, the user can see which settings can be changed by different displayed symbols. The meaning of the symbols is explained in the adjacent figure.

#### Weekdays:

	-
MO	Monday
TU	Tuesday
WE	Wednesday
TH	Thursday
FR	Friday
SA	Saturday
SU	Sunday



## **Buttons**

## Standby

Buttons used to control Easywave radio receivers manually:

ESC button:	ESC
Return to the start screen.	

## P button:

Hold the button pressed to open the programming menu.

(P)

Direction buttons	1
-------------------	---

Direct selection of a group.

left/right	Switching between channels and groups.		< >	•
up/down	Raising and lowering shutters, for example.		▲ ▼	
Stop but	ton:			
Stops the	raising/lowering.			
Number	buttons:	1	2	3
Press bri	efly:	4	5	6
Direct sele	ection of a channel.	7	3	9
Press and	d hold:			

In order to enter 2-digit numbers (channels), press the corresponding number buttons successively fast (< 2 s).

If an invalid channel value is entered during standby, the hand transmitter will detect the invalidity. In this case, the hand transmitter shows the latest selected channel.

MODE button:	MODE
--------------	------

Switching between the 4 operating modes.

Sun/moon button: (\*() Press briefly:

Activating or deactivating the sun protection mode in compatible receivers.

Press and hold:

Switching between summertime and wintertime.

If you do not press a button within 30 seconds during programming, the hand transmitter will automatically return to standby.

	Display	
ESC		P
(<		
	2	3
4	5	6
7	8	9
MODE	0	*(

Press briefly:

Press the button for less than 1.6 seconds

#### Press and hold.

Press the button for more than 1.6 seconds.

## Learning button PTx

The learning button **PTx** is located on the back of the transmitter under the battery cover.

With the help of the learning button you can program new radio transmitters into receivers which are already installed so that the learning button is inaccessible (see page 3, "Programming receivers via radio").

## Programming mode:

Buttons used to navigate and to operate in the programming menu:

#### **ESC** button:

ESC)

>

1 2 3

4 5 6

7 8 9

 $\bigcirc$ 

Moving one step back in the menu or quitting programming without saving. By holding the button pressed, the hand transmitter returns to standby.

#### **Direction buttons:**

eft/right	Navigation in the menu.	<
up/down	Change of	
	settings.	

Holding the button pressed accelerates the run.

## OK button:

I

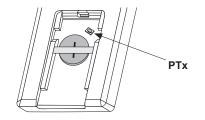
ι

Opens menu items. Verifies and saves entries.

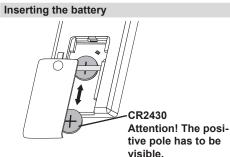
## Number buttons:

Used to enter numerical values (e. g. time, date, channel quick search) In order to enter 2-digit numbers (values), press the corresponding number buttons successively fast (< 2 s).

If you do not press a button within 5 minutes during programming, the hand transmitter will automatically return to standby.



## Start-up



#### 1. Open the battery compartment.

- 2 (Remove the battery.)
- 3. Insert a new battery.
- Slide the cover until it locks. 4.

After removing the battery, the programming will be maintained indefinitely. Time and date settings are retained for at least one minute.

## Programming the transmission codes

In order to control Easywave receivers with the RT39 transmitter, the individual channels have to be programmed into the appropriate receivers at first.

Please read the operating instructions щ supplied with the particular receivers.

#### Programming a channel into the receiver:

- 1 Activate the learning mode on the receiver.
- 2. Select a channel on the hand transmitter.
- 3. Press the **♦** or **■** button.
- 4 Quit the learning mode on the receiver.

#### Programming a low voltage telegram

## This function has to be supported by the receiver.

In case of a low battery, the RT39 transmitter sends a low voltage telegram. This telegram can be evaluated by receivers with the corresponding functionality.

For this, the telegram has to be programmed into the receiver

- Activate the learning mode on the receiver 1 with low voltage detection.
- 2. Set the RT39 transmitter to standby (time is shown).
- Hold the MODE button on the transmitter 3. pressed (> 1.6 s).
- 4. Quit the learning mode on the receiver.  $\rightarrow$  the telegram has been programmed

In case of a low battery, the RT39 transmitter sends a low voltage telegram every six hours (00:00, 06:00, 12:00, 18:00). Change the battery as soon as possible.

## Programming receivers via radio

This function has to be supported by the receiver. For further information, please read the relevant operating instructions.

#### In order to use this function, the transmitter had to be programmed into the particular receiver already.

All receivers, which are located in the reception area und are programmed with the selected channel, will be activated.

## Sending a learn and delete telegram:

- 1. Open the battery compartment.
- Press the learning button PTx briefly 2.
  - (< 1.6 s). $\rightarrow P[ ] | \text{ is shown}$
- Select the channel of the desired radio recei-3. ver (e. g. P[ 2 l).
- Press the 🕈 or 🔳 button briefly 4 (< 1.6 s) in order to send the learn telegram OR

Hold the or 📕 button pressed (> 5 s) in order to send the delete telegram.

→ The learning or deleting mode was activated in the corresponding receiver and may be used according to the operating instructions supplied with the receiver.

#### Sending a reset telegram:

- Open the battery compartment. 1.
- 2. Hold the learning button PTx pressed (> 5 s).  $\rightarrow r [ ]$  is shown
- 3. Select the channel of the desired radio receiver (e. g. r[2]).
- 4. Hold the  $\clubsuit$  or  $\blacksquare$  button pressed (> 5 s). → The reset telegram will be sent. Please read the operating instructions supplied with the receiver.

## Press the ESC button in order to abort programming at any time and to return to standby.

If you do not press a button within 30 seconds during programming, the hand transmitter will automatically return to standby.

#### Setting summertime/wintertime

In standby, the current time is shown. Hold the ★ € button pressed (> 1.6 s) in order to switch between summertime and wintertime.

The first adjustment should be done in the programming menu.

#### Setting the operating mode

In all operating modes, shutters can be raised, lowered and stopped also manually. Press the MODE button briefly (repeatedly) in order to switch between the operating modes.

#### "AUTO"

In automatic mode, shutters are controlled at the programmed switching times.

It is possible to move shutters to intermediate positions automatically as well as to operate manually.

## "MANU"

Manual operation by pressing the  $\Rightarrow$  and  $\blacksquare$  button. In this operating mode, programmed switching times won't be considered.

#### "AUTO/MANU"

The automatic mode is deactivated until midnight (00:00 o'clock). After midnight, the radio timer returns automatically to the operating mode "AUTO" so that the hand transmitter controls the shutters again at the programmed switching times.

This mode prevents shutters temporarily from lowering automatically at undesired times, e. g. on a terrace door during a party.

## "AUTO [holiday]"

Automatic mode where the programmed switching times vary randomly for at most ± 30 minutes.

## Activating/deactivating the sun protection

In order to use the sun protection function, a suitable receiver has to be available.

By pressing the **\***C button, a sun protection function in the receiver can be switched on or off alternately for selected channels and/or groups. In sun protection mode, the shutter lowers automatically to the shade position.

For further information, please read the operating instructions supplied with the receivers.

#### **Deactivating/activating the sun protection** mode:

- 1.
- 2. activate the sun protection function.
- 3. in order to deactivate the sun protection function.  $\rightarrow$  the moon icon flashes

By pressing the button again, the sun protection mode is activated or deactivated alternately.

## Programming

### General

You can set and change the basic settings for the hand transmitter incl. timer in the system menu. Furthermore, you can configure channels and program switching times.

Open the programming menu by holding the P button pressed (> 1.6 s). The current programming level is shown by horizontal bars on the display (see page 2).

If you do not press a button for 5 minutes during programming, the hand transmitter will automatically return to standby.

# Navigating in the programming menu

Navigate in the menu via < >. Adjustable values are blinking and may be changed via . By pressing the button you can select individual menu items and save settings.

Press the ESC button in order to navigate to the superior menu level or to guit the menu item without saving.

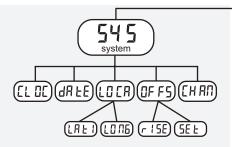
Hold the ESC button pressed (> 1.6 s) in order to quit the programming menu and to return to standby.

#### Programming individual switching times

Switching times control the operation of the receivers in the programming modes "AUTO" or "AUTO/MANU". For this purpose, you can change the following settings in the menu item  $P_{r}$  ob: time, weekdays, direction of motion, intermediate position and ASTRO function.

The switching time will only be saved if all of the settings mentioned above have been processed. If you press the button before having processed all of the settings, you will proceed to the next setting.

Select a channel or group. Press the \* C button briefly in order to  $\rightarrow$  the sun icon flashes Press the \* C button briefly again



## SYS (system menu)

Includes all of the basic settings such as time, location, temporal offset for sunrise/sunset, time zone and number of the usable channels on the device.

## Entering system data

#### Setting the time:

- 1. Press to open the menu item [L 0].
  - $\rightarrow$  clock icon appears at the bottom  $\bigcirc$  $\rightarrow$  values to be set are blinking
- Use <> to switch between hour, minute and summertime/wintertime.
- 3. Use ↓ or number buttons to enter hour, minute and summertime/wintertime.
- 4. Press to save settings and quit.

## Setting the date:

1. Press ■ to open the menu item dR EE.

 $\rightarrow$  date icon appears at the bottom  $\rightarrow$  values to be set are blinking

- 2. Use **<>** to switch between day, month and year.
- Use ↓ or number buttons to enter day, month and year.
- 4. Press  $\blacksquare$  to save settings and quit.

## Entering the coordinates:

- 1. Press to open the menu item L0 [ 用.
- $\rightarrow$  "ASTRO" appears above the indication 2. Use  $\checkmark$  to switch between LRL ! (latitude), LIRE (longitude) or UL [ (time zone).
- 3. Press
- Use ♦ or number buttons to enter an integer value (-90 to 90, -180 to 180, -11 to 12 change sign with < >, see page 6).
- 5. Press to save settings.
- 6. Repeat the process for the other value or quit with ESC.

## Setting the offset:

Define a temporal offset to the calculated time of sunrise (r + 5E) and sunset (5E E) in DF F5.

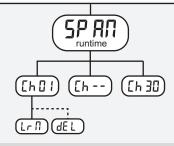
- 1. Press  $\blacksquare$  to open the menu item  $\[ ]FF5. \]$
- 2. Use  $\checkmark$  to switch between r 15E and 5E E
- 3. Press

4

- Use \$
   or number buttons to enter an integer value (-120 to 120, change sign with \$
   >).
- 5. Press to save settings and quit.
- 6. Repeat the process for the other value or quit with ESC.

# Defining the number of channels:

- Press to open the menu item [H 用].
- 2. Use  $\stackrel{\clubsuit}{\bullet}$  or number buttons to select the desired channel number Lh (max. 30).
- 3. Press to save settings and quit.



## SPAN (measurement of runtimes)

The hand transmitter can move shutters to intermediate positions. In order to use this function, you have to measure the runtimes of the respective channels in this menu.

## Measuring the runtimes

(AR EE)

(DCR)

OF FS

The shutter has to be raised completely in order to start measuring the runtimes. The runtime can be measured and overwritten as often as desired for each channel.

For channels, where the runtime has already been measured, the icon for the intermediate position  $\overline{1}$  is shown in the menu 5P  $R\Pi$ .

#### Measuring the runtime for a channel:

- Use <> or the number buttons to select the channel Lh -- for the runtime measurement.
- 2. Press .  $\rightarrow Lr \Pi$  is shown

3

Press ■. → the shutter raises automatically and → ՀՀ 5 is shown

# Measuring the runtime to lower the shutter

 Hold ▼ pressed until the shutter is lowered completely. (H□ L d is shown)
 Then, release the button. → □P EΩ is shown



(Lr II)

Measuring the runtime to raise the shutter

Hold ▲ pressed until the shutter is raised completely.
 (Hū L d is shown)
 Then, release the button.
 → dū ΠE is shown (2 s)



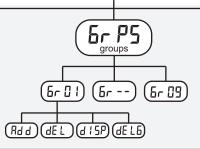
(dEL)

- $\rightarrow$  you return to the channel selection
- $\rightarrow$  the settings have been saved
- 6. Repeat the process, if necessary.

# Deleting the runtime for a channel:

The runtime can be deleted in order to use the channel for other Easywave radio receivers.

- 1. Use **< >** to select a channel.
- 2. Press
- Use < > to select a menu item dE L. (only available when a runtime has been measured)
- 4. Press
- 5. Use  $\ddagger$  to switch to  $4E_5$ .
  - (at no the runtime is not deleted)
  - 6. Press to delete the runtime and quit.  $\rightarrow d\square \Pi E$  is shown (2 s)
    - $\rightarrow$  you return to the channel selection (1.)



# **GRPS** (groups)

Permits to combine several channels in groups and to control them simultaneously. It is possible to define up to 9 different groups ( $\[begin{array}{c} \end{array}\]$  to  $\[begin{array}{c} \end{array}\]$ 

(Rdd)

(dEL)

(JELG)

## **Defining groups**

## Adding channels to a group:

- A channel can be added to several groups.
- 1. Use **< >** to select a group.
- 2. Press
- 3. Use  $\langle \rangle$  to select the menu item  $\mathbf{Ad} \mathbf{d}$ .
- 4. Press
- Use ♦ or the number buttons to select the channel you want to add.
   → channels that have already been added cannot be selected
- 6. Press to save.
  - $\rightarrow$  you return to the menu item  $\mathbf{Rd} \mathbf{d}$ .
- 7. If necessary, repeat the process in order to add further channels to the group.

## Deleting channels from a group:

Deleted channels are no longer in the group.

- 1. Use **< >** to select a group.
- 2. Press
- 3. Use  $\checkmark$  to select the menu item dEL.
- 4. Press
- Use ↓ to select the channel you want to delete from the group.
- Press to confirm and quit.
   → you return to the menu item dE L
- 7. If necessary, repeat the process in order to delete further channels from the group.

## Displaying channels of a group:

The menu item only serves for checking purposes. You cannot change settings.

- 1. Use **< >** to select a group .
- 2. Press
- 3. Use  $\checkmark$  to select the menu item d 15P.
- 4. Press
  - 5. Use \$ to display channels.
  - 6. Press or ESC to quit the menu.

# Deleting all channels from

a group: 1. Use < 3

4

5.

6.

Use < > to select a group.
 Press ■

Press

the group)

Press ■.
 Use < > to select the menu item dELE.

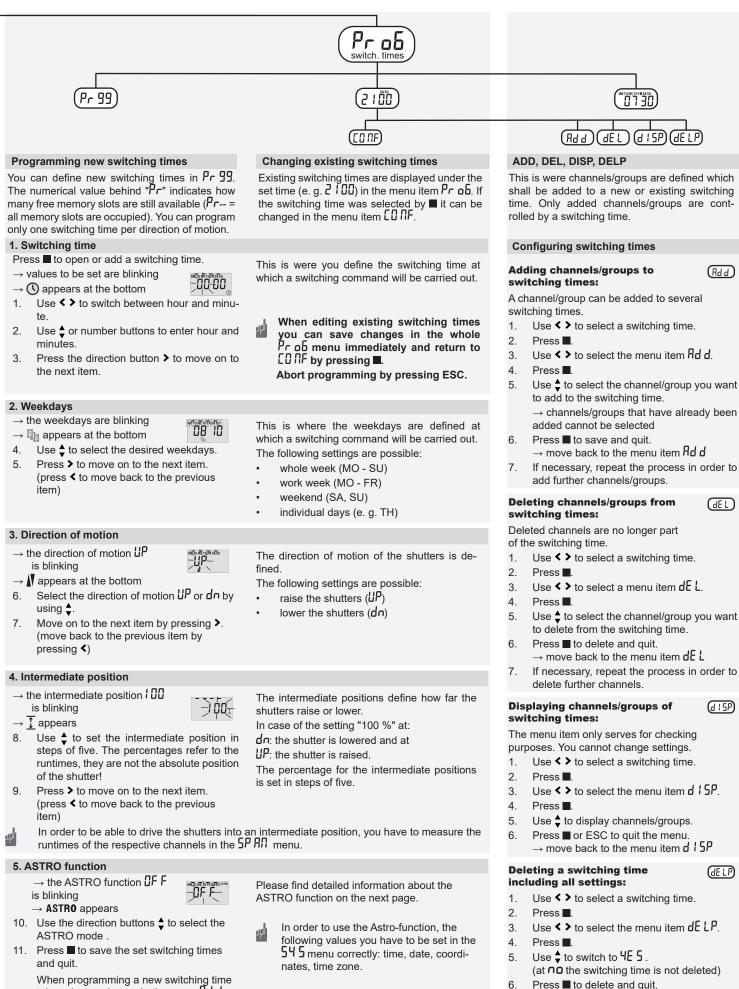
Use  $\clubsuit$  to switch to 4E 5.

Press to delete and quit.

 $\rightarrow d\Omega \Pi E$  is shown (2 s)

(at no the channels are not deleted from

 $\rightarrow$  you return to the group selection (1.)



b. Press ■ to delete and quit.  $\rightarrow d\Omega \Pi E$  is shown (2 s)  $\rightarrow$  move back to the menu item Prxx

5

				Coordinates of City	Latitu-	Longi-	Time
calculated a		1. OF F	ettings are possible:	City	de *)	tude **)	zone (UTC) **
	set at set coordinates ± t			Berlin	52°	13°	+1
	in the GFF5 settings in	the 3. ERrL (early)			-	-	+1
system men	u.	4. LREE (late)		Bremen	53°	9°	+1
		4. LITLL (late)		Dusseldorf	51°	7°	+1
				Dresden	51°	14°	+1
				Erfurt	51°	11°	+1
				Hanover	52°	10°	+1
				Hamburg	54°	10°	+1
	function, the following		Inrise	Kiel	54°	10°	+1
the set switchin	ng time is before noon, the	ASTRO function will	Switching time			-	
erate based or	n the sunrise time. After no	on, the ASTRO func-	before noon	Magdeburg	52°	12°	+1
on operates bas	ed on the sunset time.		T	Mainz	50°	8°	+1
	LE and ERrL function, th	e switching times are		Munich	48°	12°	+1
illed blocking til		Standard St	Inset	Potsdam	52°	13°	+1
		· · · · · · · · · · · · · · · · · · ·	Switching time	Saarbrücken	49°	7°	+1
vitching comma	ands <b>before</b> the blocking tin	he in case of Enclor		Schwerin	54°	11°	+1
	g time in case of LALE are	adapted by the sys-	after noon	Stuttgart	49°	9°	+1
m accordingly.			•			-	
				Wiesbaden	50°	8°	+1
stro 🔐 F					_		
MALTU WE THIT IS STATU ASTRO	The ASTRO function	is deactivated. The shutte	ers raise/lower at the program-	Coordinates of I			
-0F F	med switching time.			City	Latitu-	Longi-	Time
	Sunrise/sunset are no	ot considered.			<b>de</b> *)	tude **)	zone (UTC) *
				Amsterdam	52°	5°	+1
				Andorra la Vella	43°	2°	+1
	The shutters are raise	d/lowered at the calculate	d sunrise or sunset time (+/- a	Athens	38°	24°	+2
MQ TU VIE TH FIT'SA SU ASTRO		et). The programmed switch			45°	24 20°	
	possibly defined onse	t). The programmed switch	ing time will be ignored.	Belgrade	-		+1
				Bern	47°	7°	+1
				Bratislava	48°	17°	+1
				Brussels	51°	4°	+1
STROLALE	atest possible blocking ti	me)		Budapest	47°	19°	+1
			as the latest possible blocking	Bucharest	44°	26°	+2
MOLTU WE THER SA SU ASJAN		ichning time will be used a	as the latest possible blocking	Chisinau	47°	29°	+2
<u>-{</u> H <u></u> EE-	time.			Dublin	53°	-6°	0
	0		utter will be carried out at the				
	latest with the program	nmed switching time.		Helsinki	60°	25°	+2
				Copenhagen	56°	13°	+1
	Example:			Lisbon	39°	-9°	0
		O	Operational associated	Ljubljana	46°	15°	+1
	Latest blocking	Sunrise time	Carried out at	London	52°	0°	0
	time					6°	
	7:30 oʻclock	06:30 oʻclock	06:30 oʻclock	Luxembourg	50°	-	+1
	(< noon =	00.30 0 CIOCK	00.00 0 CIOCK	Madrid	40°	-4°	+1
	sunrise)	08:00 oʻclock	7:30 oʻclock	Minsk	54°	28°	+2
				Monaco	44°	7°	+1
	Latest blocking	Sunset time	Carried out at	Moscow	56°	38°	+3
	time			Nicosia	35°	33°	+2
	09:00 oʻclock	00.00 -(-)		Oslo	60°	11°	+1
		20:30 oʻclock	20:30 oʻclock				
	(> noon =	22:00 oʻclock	21:00 oʻclock	Paris	49°	2°	+1
	sunset)	22.00 0 CIUCK	21.0000000K	Podgorica	42°	19°	+1
				Prague	50°	14°	+1
				Reykjavík	64°	-22°	0
STRO EHrL (e	arliest possible blocking	time)		Riga	57°	24°	+2
AND THE OWNER WITH A DESIGN AND A	The programmed swi	tching time will be used as	the earliest possible blocking	Rome	42°	12°	+1
	time.		. 0	San Marino	44°	12°	+1
	The switching comm	and to raise/lower the shi	utter will be carried out at the				
>		ammed switching time.		Sarajevo	44°	18°	+1
	samoor what the progr	annoa ownoning time.		Skopje	42°	21°	+1
				Sofia	43°	23°	+2
	Example:			Stockholm	59°	18°	+1
	Example:					10	
	Example: Earliest blocking	Sunrise time	Carried out at	Tallinn			
	Earliest blocking	Sunrise time	Carried out at	Tallinn Tirana	59°	25°	+2
	Earliest blocking time			Tirana	59° 41°	25° 20°	+2 +1
	Earliest blocking	Sunrise time	Carried out at 7:30 o'clock	Tirana Vaduz	59° 41° 47°	25° 20° 10°	+2 +1 +1
	Earliest blocking time	06:30 oʻclock	7:30 oʻclock	Tirana Vaduz Valletta	59° 41° 47° 36°	25° 20°	+2 +1 +1
	Earliest blocking time 7:30 oʻclock			Tirana Vaduz	59° 41° 47°	25° 20° 10°	+2 +1 +1 +1
	Earliest blocking time 7:30 oʻclock (< noon = sunrise)	06:30 oʻclock 08:00 oʻclock	7:30 oʻclock 08:00 oʻclock	Tirana Vaduz Valletta Vatican City	59° 41° 47° 36° 42°	25° 20° 10° 15° 12°	+2 +1 +1 +1 +1
	Earliest blocking time 7:30 oʻclock (< noon = sunrise) Earliest blocking	06:30 oʻclock	7:30 oʻclock	Tirana Vaduz Valletta Vatican City Vilnius	59° 41° 47° 36° 42° 55°	25° 20° 10° 15° 12° 25°	+2 +1 +1 +1 +1 +1 +2
	Earliest blocking time 7:30 oʻclock (< noon = sunrise)	06:30 oʻclock 08:00 oʻclock	7:30 oʻclock 08:00 oʻclock	Tirana Vaduz Valletta Vatican City Vilnius Warsaw	59° 41° 47° 36° 42° 55° 52°	25° 20° 10° 15° 12° 25° 21°	+2 +1 +1 +1 +1 +1 +2 +1
	Earliest blocking time 7:30 oʻclock (< noon = sunrise) Earliest blocking	06:30 oʻclock 08:00 oʻclock	7:30 oʻclock 08:00 oʻclock	Tirana Vaduz Valletta Vatican City Vilnius	59° 41° 47° 36° 42° 55°	25° 20° 10° 15° 12° 25°	+2 +1 +1 +1 +1 +1 +2

ψ

(> noon =

sunset)

The coordinates can be entered as integer values only. Due to this, slight inaccuracies in the calculation of sun set and sun rises may occur.

22:00 o'clock

22:00 o'clock

Latitude, adjustable from -90° to 90 ° north: + (positive values) south: - (negative values) Longitude, adjustable from -180° to 180° east: + (positive values) west: - (negative values) \*\*) L0 N6

46°

16°

+1

LAFI

Zagreb

\*)

\*\*\*) Time zone (UTC), adjustable from -11 h to 12 h Is used for ASTRO function only, does not affect the set time.

## Switching time - examples

ouncoming time of					
Example	At the weekend, all shutters shall raise with sunset but at 07:30 oʻclock at the earliest.	During the work week, the shutters on the ground floor shall be lo- wered at 21:00 o'clock.	In the evening, the shutters shall be lowe- red halfway 30 minutes after the sunset but at the latest at 20:30 o'clock.	The shutters in the bedroom shall raise slightly every day as soon as it is bright outside (approx. 20 mi- nutes before sunrise).	On Wednesdays, the shutters in the living room shall lower at sunset but be raised until at least 21:30 o'clock.
OFFS settings	RISE ± 0 minutes	-	SET + 30 minutes	RISE - 20 minutes	SET ± 0 minutes
Switching time	7:30 oʻclock	20:00 oʻclock	20:30 oʻclock	before noon	21:30 oʻclock
Weekday	SA, SU	MO - FR	MO - SU	MO - SU	WE
Direction of motion	UP	DN	DN	UP	DN
Intermediate posi- tion	100 %	100 %	50 %	25 %	100 %
ASTRO	EARL	OFF	LATE	ON	EARL
Channels/group(s)	all shutters	ground floor shutters	all shutters	bedroom shutters	living room shutters

## Troubleshooting

Description of faults	Fault	Remedy
The battery symbol The battery symbol The battery symbol The battery symbol The battery appears on the display, if the transmitter is in operating mode.	The battery is weak.	Replace the battery (see page 3).
There is no visible display.	The battery is inserted incorrectly or empty.	Check the batteries polarity or replace the battery (see page 3).
The radio control does not react to the press of a button in manual mode.	Channels are not programmed into the receiver correctly.	Reprogram the channels (see page 3).
The hand transmitter does not react to the pro- grammed switching commands.	A wrong operating mode has been set. Switching times have been programmed incor- rectly. Channels are not programmed into the receiver correctly.	Switch to the operating mode "automatic mode" (see page 3). Check the switching times (see page 5 - 7). Reprogram the channels, if necessary (page 3).
The shutter is not driving into the desired position.	The runtimes are incorrect.	Measure the runtimes again (see page 4).
It is not possible to select a channel in the menu item 5P Rn.	The number of the usable channels is too low.	Add more channels under [НЯЛ. (see page 4).
The ASTRO function calculates inexact times.	The ASTRO settings have been configured in- exactly.	Set the correct coordinates and the exact date in the system menu.
When creating a new switching time "doub" appears on the display.	There is already an identically switching time pro- grammed.	Choose another combination of time, direction and days.
Entered numbers are not accepted.	Invalid value entered.	Enter valid values.

## **Resetting the transmitter**

The reset function is used to apply the factory settings of the hand transmitter. All saved settings will be deleted.



 Hold both buttons pressed simultaneously (> 1.6 s). → all numbers are blinking
 Hold both buttons pressed again (> 1.6 s). → all numbers are flashing for

3 seconds (reset was successful) The transmitter has returned to standby. The factory settings have been reset.

## **General information**

#### Disposal

Waste electronic equipment must not be disposed of with household waste!

Dispose of the waste product via collection facilities for electronic scrap or via your specialist dealer.

Dispose of used batteries in a recycling bin for batteries or via the specialist trade. Dispose of packaging material in the recycling bins for cardboard, paper and plastic.

#### Warranty

Within the statutory warranty period we undertake to rectify free of charge by repair or replacement any product defects arising from material or production faults. Any unauthorized tampering with, or modifications to, the product shall render this warranty null and void.

## Conformity

Hereby, ELDAT GmbH declares that the radio equipment type RT39 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.eldat.de

#### **Customer service**

If the device does not work properly despite proper handling or in case of damage, please contact the manufacturer or your retailer.

#### ELDAT GmbH

CE

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08:30 pm		
	SET + 30 minutes, MO - SU, DN, 50 %, LATE	Ch01, Ch02, Ch03

Channel	Description	Group
e. g. Ch01	left kitchen window	}GR**
Ch01		
Ch02		
Ch03		
Ch04		
Ch05		
Ch06		
Ch07		
Ch08		
Ch09		
Ch10		
Ch11		
Ch12		
Ch13		
Ch14		
Ch15		
Ch16		
Ch17		
Ch18		
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Ch30		
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