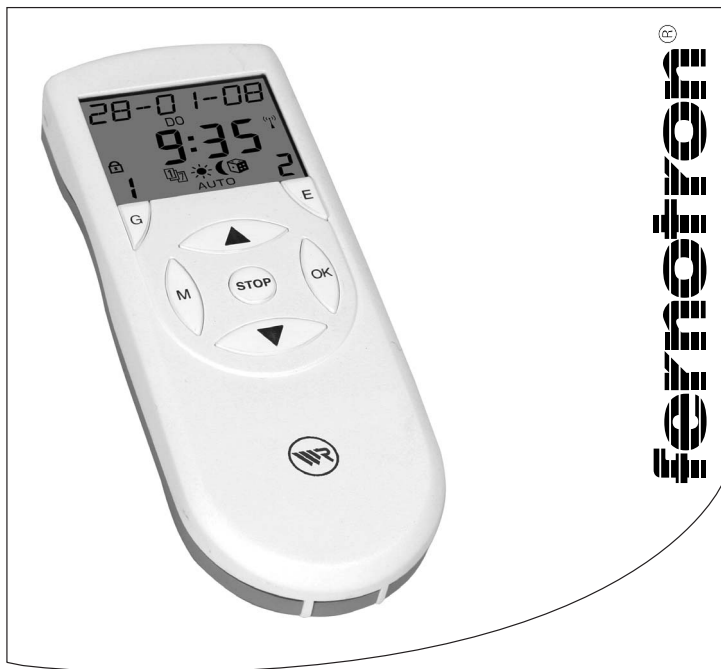


Operating Instructions Fernotron Programming Centre



Article No. 2411



[®]
fernotron



Dear customer ...

In purchasing this **Fernotron Programming Centre** you have decided on a quality product manufactured by Rademacher. We would like to thank you for your confidence.

The new **Fernotron Programming Centre** has been designed in an effort to combine the latest technology with the greatest possible ease of operation. You will find that the simple menu navigation makes operation appreciably easier. With uncompromising quality requirements and after an extensive test series phase, we are now proud to present you with this innovative product.

All the highly qualified staff at RADEMACHER stand behind it.



These instructions...

...describe how to operate the **Fernotron Programming Centre**.



Please read this manual completely and observe all of the safety instructions before commencing with the installation.

Please keep this manual in a safe place and include them with the device in the event it changes owners.

The warranty becomes null and void in the event of any damage or loss caused by failure to observe these operating and safety instructions. We accept no liability for any consequential losses or damage resulting from non-observance of these instructions.

CE mark and conformity

This **Fernotron Programming Centre** (art. no. 2411) complies with the requirements of the applicable European and national directives. The conformity has been certified and the corresponding declarations and documentation are on file at the manufacturer's premises.



i Key to symbols



This concerns your safety.

Please pay particular attention to and carefully follow all instructions with this symbol.

ADVICE This heading indicates information that is important to the proper functioning of the motor.

i Proper use

Use the Fernotron Programming Centre and the components of the Fernotron system (receiver modules, radio-controlled solar light sensor, transmitter button, etc.) only for remote operation of:

- ◆ Roller shutters
- ◆ Venetian blinds
- ◆ Electrical consumers (e.g. lighting)

Operating conditions ◆ The Fernotron system may only be operated with and installed in systems and devices in which transmitter or receiver faults do not present any danger to persons or property or for which these hazards are removed by the use of other safety equipment.

- ◆ Use the Programming Centre only in dry rooms.

i Improper use

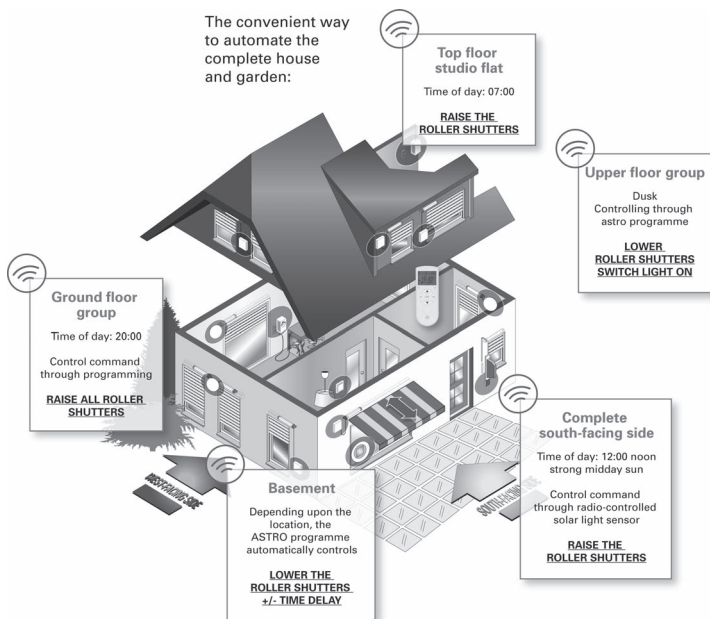
Never use the Fernotron Programming Centrefor remote operation of devices and equipment with increased safety requirements or increased risk of accident. Additional safety equipment is required to do so. Please observe the relevant legal regulations for setting up such systems.

General view	3	- Commissioning assistant	47
Key to symbols	4	- Selecting group names and/or receiver names	47
Proper use / improper use	4	- Activating SET function of a receiver	47
Overview of the Fernotron system	6	- Entering radio code for a Fernotron radio-controlled tubular motor	48
Functional description	8	- Setting of end positions	50
Function overview	9	- Setting the sun position	50
Important advice before adjusting the settings	10	- Changing the direction of rotation	51
Group and receiver names (table) ..	13	- Entering postcode/time zone for astro function	51
Your notes/allocation table	14	- Entering maximum number of groups	51
First steps with the Programming Centre	16	- Defining the maximum number of receivers per group	52
Calling up commissioning assistant ..	17	- Automatic summer/winter time changeover	52
Basic principle of menu navigation ..	21	- Selecting the language	52
Menu list	22	- Switching the automatic button lock on/off	53
Activating and deactivating automatic operation	23	- Setting the contrast	53
Changing the standard switching times for UP/DOWN	27	- Indication of DFC reception quality	53
Weekly timer	28	- Switching DCF radio clock on/off	54
- Setting the weekly timer	29	- Setting light function per group	54
Autom. sunlight protection mode	31	- Setting the SU/WI transmission time	54
- Activating/deactivating the automatic sunlight mode	32	- Setting the moving text velocity	55
Automatic dusk mode with astro function	33	- Switching automatic data transmission on and off	55
Activating/deactivating automatic dusk mode	34	Deleting settings	56
Switching the automatic random operation on or off	35	Manual operation	57
Transmitting time/date to receiver ..	36	Technical data	58
Setting and transmitting time / date to receiver	37	Time zone table	59
Data transmission	38	Warranty conditions	61
Registration with:		Quick user guide	62
- a receiver using the SET button	40	Display overview	63
- a Fernotron radio-controlled tubular motor with radio code	42	Factory settings	63
Switching the button lock on or off ..	44		
Expert mode	45		
- Calling up expert mode	46		

i Overview of Fernotron system














The Fernotron system ... is a radio-based system to control roller shutters and electrical consumers (e.g. lighting). It consists of various transmitters and receivers which allow you to adapt the system flexibly to your requirements.

Group formation With the Fernotron system you can combine and control a maximum of 49 receivers in 7 groups (7 groups with 7 receivers each).





Overview of Fernotron system

	TRANSMITTER	RECEIVER	DEVICES
P	Sends your programme data	Saves the programme data	Runs programme controlled
M	Sends radio command	Responds directly to radio command	Directly performs radio command
P = Programme-controlled M = Manual control	 Article no. 2405 Standard Programming Centre	 Article no. 2420 Receiver surface-mounted	 Controlling roller shutters using Rademacher tubular motors
	 Article no. 2411 Comfort Programming Centre	 Article no. 2421 Receiver recessed version	
	 Article no. 2430 Transmitter button	 Article no. 2422 Receiver with local switch function	It is also possible to control other brands of tubular motors but not however to set the end positions using Fernotron.
	 Article no. 2440 Radio-controlled solar light sensor	 Article no. 2423 Receiver with sensor switch function	
	 Article no. 2427 Signal amplifier (not switchable manually)	 Article no. 2425 Receiver/light switch	
		 Article no. 2426 Receiver/plug-in switching device	Controlling all light sources and electric devices 

i Functional description

The Programming Centre ... is the input unit of the Fernotron system. You can use it to enter the desired functions of the the Fernotron system (e.g. automatic switching times) and to transmit these by radio to the desired receiver or to the desired group.

All settings/input is saved permanently in the Programming Centre.

Presettings save work Carry out all settings first (set up switching times/function and groups) with the Programming Centre before transmitting the settings by radio to the desired receiver.

Manual operation In addition you can manually remotely operate individual tubular motors or devices, or tubular motors or devices which have been combined into groups (a maximum of 7 groups with a maximum of 7 receivers), at any time.

Register the Programming Centre with the receiver To enable your settings or manual switching commands to be transmitted, the Programming Centre must be registered once with each receiver (see page 40).

Functions The settings/function which you can perform with the aid of the Programming Centre can be divided into the following types:

- ◆ General functions
- ◆ Group functions
- ◆ Individual functions
- ◆ Special functions (see expert mode)

General functions General functions are functions and settings which refer to the overall Fernotron system.

Group functions You can combine a maximum of 7 receivers in one group. The previously set group functions then apply for all receivers or devices of this group at the same time (e.g. in order to close all roller shutters on the ground floor at 21.00).

Individual functions Individual functions are used to individually set a receiver (e.g. to activate the automatic sunlight protection mode in order to open an awning).

Special functions There are various special functions available in expert mode (E) (menu items) to facilitate taking the Fernotron system into operation and adapting it to individual requirements.

Most settings are not compulsory and only require to be carried out once for the basic setting procedure (e.g. enter the postcode).



Function overview

General functions

- Setting the current time (only if there is no DCF reception)
- Transmitting the time to the receiver
- Setting the postcode for the dusk programme
- Setting the number of receivers and groups
- Setting the receiver and group names

Group functions (apply for a maximum of 7 groups of not more than 7 receivers each)

- Manual operation of all roller shutters or devices in a group
- Set standard switching time for UP (▲) and DOWN (▼)
- Activate/deactivate the weekly timer, including:
 - weekdays/weekend programme
 - individual days programme

Individual functions (apply for each of the maximum of 49 receivers)

- Manual operation of individual roller shutters or devices
- AUTO/MANU switchover
- Automatic sunlight protection mode
- Automatic dusk operation (with astro function)
- Setting of the time delay for the dusk programme
- Automatic random operation
- Registration with the receiver
- Transmit data (e.g. switching times)

Special functions in expert mode

- Commissioning assistant
- End position setting (only for Rademacher electronic tubular motors)
- Reversing the direction of rotation of a tubular motor
- Change the language
- Automatic SU/WI time changeover
- Other special functions, see page 45



Important advice before adjusting the settings

Settings Two situations can be distinguished in which you adjust settings:

- ◆ **Initial operation/installation of a Fernotron system for the first time.**
- ◆ **Subsequent changes/settings made to an existing Fernotron system.**

Initial operation Please proceed as follows:

1 Preliminary thoughts:

Fill in the table on page 14 with the allocation of the receivers (including the names and number) and the desired settings.

ADVICE Please refer to page 13 for a table of the names suggested and preset by the manufacturer.

2 Call up and carry out the commissioning assistant (see page 17)

Basic settings via menu navigation with standard switching times including allocation of the names and numbers of the groups and receivers.

ADVICE This will make you familiar with the setting principle.

3 Other settings enabling individual adaptation

- ◆ Setting the weekly timer
- ◆ Activating and setting the automatic sunlight protection mode etc.

4 Registration of the Programming Centre and data transmission

- ◆ To enable your settings or manual switching commands to become active you must first register the Programming Centre once with each Fernotron receiver (see page 40). The allocation and all settings (including the time etc.) will also be transmitted to each individual receiver at the same time.



Important advice before adjusting the settings

Subsequent changes **Please proceed as follows:**

1 Preliminary thoughts:

Which settings are to be changed?

Record any changes in the table on page 14.

2 Set the Programming Centre

Call up and set the functions in the menu e.g.:

- ◆ Set standard switching times or weekly timer
- ◆ Set the automatic sunlight protection mode/dusk mode etc.

3 Data transmission

- ◆ Select the desired receiver in the group
- ◆ Transmission of the allocation and all settings (including time etc.) to each individual receiver.

i Important advice before adjusting the settings

Allocation of names You can allocate a name/a device number to each group and each receiver (see page 47/pt. 2).

Initial operation If you use the commissioning assistant (see page 17) you will be automatically requested to select and enter the group and receiver names.

Subsequent changesare possible at any time.

Using the same names You can use names several times. To distinguish between receivers with the same name, each receiver is given a different receiver number.

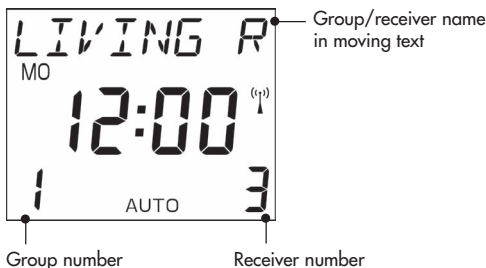
Example In the living room there are 5 windows, and all 5 windows should open and close at the same time.

You wish to allocate the name „living room“ for the group and for all receivers. This means that all receivers must be given a consecutive number.

Numbering receivers consecutively

Group	Name*	Number
Group 1	Living room	A
- Receiver 1	Living room	1
- Receiver 2	Living room	2
- Receiver 3	Living room	3

* The group and receiver name always appears at the top of the display.





Group and receiver names

Setting code or name Select the corresponding cipher code for the group and receiver names in expert mode (see page 47/no. 2). This table shows you the factory settings with the corresponding code.

Code	Name	Code	Name	Code	Name
0	WITHOUT NAME	26	KITCHEN	53	DEVICE 1
1	STORE ROOM	27	LAMP	54	DEVICE 2
2	STUDY	28	FAN	55	DEVICE 3
3	BATHROOM	29	AWNING	56	DEVICE 4
4	TREATMENT ROOM	30	MEDIA ROOM	57	DEVICE 5
5	LIBRARY	31	MOTOR	58	DEVICE 6
6	UTILITY ROOM	32	NORTH	59	DEVICET 7
7	OFFICE	33	FIRST FLOOR	60	GROUP 1
8	TOP FLOOR	34	EAST	61	GROUP 2
9	CEILING LIGHT	35	PUMP	62	GROUP 3
10	ENTRANCE	36	ROLLER SHUTTER	63	GROUP 4
11	PARENTS'- BEDROOM	37	BEDROOM	64	GROUP 5
12	GROUND FLOOR	38	STANDARD LAMP	65	GROUP 6
13	DINING ROOM	39	SOUTH	66	GROUP 7
14	STOREY	40	PATIO	67	RESERVE
15	TV ROOM	41	W.C.	68	RESERVE
16	CORRIDOR	42	STAIRWELL	69	RESERVE
17	FOYER	43	CURTAIN	70	RESERVE
18	CLOAKROOM W.C.	44	STORE		
19	SPARE ROOM	45	ENTRANCE HALL		
20	GARDEN	46	WAITING ROOM		
21	HOBBY ROOM	47	LADIES		
22	VENETIAN BLIND	48	GENTS		
23	FIRESIDE LOUNGE	49	CRAFT ROOM		
24	BASEMENT	50	WORKSHOP		
25	CHILD'S BEDROOM	51	WEST		
		52	LIVING ROOM		

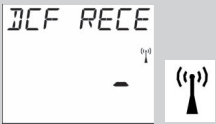




Your notes / allocation table (master copy)

Group	1	2	3
Receiver 1	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>
Receiver 2	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>
Receiver 3	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>
Receiver 4	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>
Receiver 5	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>
Receiver 6	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>
Receiver 7	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>	Code/Name:..... ☾ <input type="checkbox"/> * <input type="checkbox"/>
Standard pr.	▲ ▼	▲ ▼	▲ ▼
Wp. Mon - Fri	.....	.....	.....
Wp. Sat - Sun	.....	.....	.....
Mon.	.....	.....	.....
Tues.	.....	.....	.....
Wed.	.....	.....	.....
Thurs.	.....	.....	.....
Fri.	.....	.....	.....
Sat.	.....	.....	.....
Sun.	.....	.....	.....



First steps with the Programming Centre

	Buttons	Indication in the display	
1.			Insert batteries, see page 58
2.			The quality of reception of the DCF signal is displayed. The radio clock symbol flashes.
2.a	1 or 2 lines		No DCF reception or weak DCF reception (1 to 2 lines in the display).
	OK		Confirm and automatically proceed with setting clock time and date, see page 37.
2.b	or		
	3 lines		Good DCF reception (3 lines in the display).
	OK		Confirm and automatically proceed with displaying the current weekday, date and clock time (normal display).
			ADVICE It can take up to 5 minutes until a radio signal is received.
			The radio clock symbol flashes:
			<ul style="list-style-type: none"> ◆ if no DCF signal is received ◆ after a two-week loss of the DCF signal
		Automatic settings when a DCF signal is received	<ul style="list-style-type: none"> ◆ Date ◆ Time ◆ Weekday



Calling up the commissioning assistant






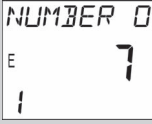








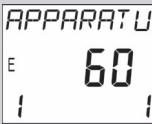



Initial operation We assume that you have not yet set up any groups or made any settings.

Menu navigation With the aid of the commissioning assistant all important basic settings will be requested automatically in succession.

	Buttons	Indication in the display	
1.			Open the menu
2.			Select expert mode (E) The menu item flashes.
3.	 Press for approx. 2 sec.		Open expert mode It is important that you press the buttons in the correct order: 1. + 2.
4.			Confirm the commissioning assistant
5.	 		Insert the postcode/time zone and confirm see automatic dusk mode, page 33 01 to 99 = Postcode in Germany (the first two figures) 100 to 255 = Various European cities, see table on page 59







Calling up the commissioning assistant

	Buttons	Indication in the display	
6.	 		Enter and confirm the number of groups ADVICE You can set up a maximum of 7 groups.
7.	 		Enter and confirm the number of receivers for group 1 ADVICE You can set up a maximum of 7 groups.
7.a	 		Repeat point (7) for all groups
8.	 		Select a name for each group (see page 13) and confirm After each confirmation the next group will follow automatically.
9.	 		Select a name for each receiver (see page 13) and confirm ADVICE After each confirmation the next receiver will follow automatically. If there are 7 groups with 7 receivers each then you will have to perform this procedure 49 times.
10.	 		Enter and confirm standard switching times for UP (▲) and DOWN (▼) for each group. <ol style="list-style-type: none">1. Set the hours and proceed with O.K.2. Set the minutes and proceed with O.K.







Calling up the commissioning assistant

	Buttons	Indication in the display	
11.			After the last setting the function data transmission and the window „Press Stop button“ will appear briefly
12.	Press SET at the receiver		<p>Activate the SET function of the first Fernotron receiver (see operating instructions for the receiver)</p> <p>You can register the Programming Centre with the receiver within 60 seconds.</p>
13.	STOP		<p>Register the Programming Centre with the receiver and begin data transmission</p> <p>Data transmission will take approx. 5 seconds, during which a count-down from 5 down to 1 will be shown in the display.</p> <p>The receiver confirms the successful data transmission by briefly switching on the connected motor or light.</p> <p>If there is no confirmation then press the STOP button again.</p>
14.	<p>OK</p> <p>or</p> <p>G / E</p> <p>or</p> <p>▲ / ▼</p>		<p>Confirm the data transmission</p> <p>By pressing the OK button the data transmission for the next receiver will automatically be proposed.</p> <p>ADVICE</p> <p>Alternatively you can also select the next receiver with the G and E button or with the UP (▲) and DOWN (▼) button.</p>










Calling up the commissioning assistant

	Buttons	Indication in the display	
15.	SET / STOP OK		Proceed with the data transmission for the next receiver and all other receivers as shown in the steps 12 to 14.
16.	OK		After the data transmission to the last receiver, return to the normal display.
	M Press for 4 sec.		ADVICE Abort initial operation By pressing the menu button the initial operation procedure will be aborted and the normal display will appear.
	▲ / ▼ OK		ADVICE If you wish to abort the data transmission, then proceed as follows: Abort data transmission By pressing the UP (▲) / DOWN (▼) button several times, you will obtain the function „Abort“. By confirming with OK the normal display will appear again.

Subsequent alteration of settings In this case we assume an existing Fernotron system in which the Programming Centre has been registered with all receivers, as described in the initial operation procedure.

All the functions are listed in the menu You can call up the menu any time in order to select and set individual functions according to your wishes.

1.  Call up menu
2.  Select function If a function is selected then the corresponding symbol will flash
3.  Confirm the function The setting mode is activated, and the value to be set flashes
4.  Select the group and/or receiver whose settings are to be altered
5.  Alter the values in setting mode
6.  Confirm the setting and return to the menu
7.  Quit the menu
8. The moving text „Data transmission“ will appear automatically at the top of the display.

ADVICE

If the automatic data transmission was activated in expert mode (see page 55, point 20, factory setting = OFF), you will be requested to transmit data at this point (see page 38).

This list is intended to provide you with an overview of the menus that are available in the programme.

Normal display



Menu

- Standard switching times
- Weekly timer
- Automatic sunlight protection mode
- Automatic dusk mode
- Random function
- Transmit the time
- Data transmission
- Expert mode






Expert mode

- Commissioning assistant
- Set name
- SET function
- Radio code
- Setting of end positions
- Sun position
- Reversal of direction of rotation
- Postcode zone
- Number of groups
- Number of receivers
- Automatic SU/WI time changeover
- Set language
- Button lock
- Contrast
- DCF reception quality
- DCF clock
- Light function
- SU/WI transmission time
- Moving text velocity
- Automatic data transmission



Automatic operation

- AUTO** All automatic functions are activated e.g.
- ◆ Switching times
 - ◆ Automatic sunlight mode
 - ◆ Automatic dusk mode, etc.
- ADVICE** Manual operation is still possible in automatic operation mode.
- MANU** All automatic functions are switched off; only manual operation is possible.



















Activating/deactivating automatic operation for a receiver

	Buttons	Indication in the display	
1.			Select the desired group and receiver
2.	 Press for approx. 1 sec.		<p>Switch automatic operation on/off</p> <p>Automatic data transmission to the receiver will begin at once.</p> <p>ATTENTION Switching over occurs even if the button lock is activated.</p>
3.		 	<p>This is followed by the normal display again.</p> <p>AUTO = Automatic operation on</p> <p>MANU = Automatic oper. off</p>












Activating/deactivating automatic operation for a group

	Buttons	Indication in the display	
1.	<p>G / E</p>	 <p>The display shows 'MO' at the top left, '9:35' in the center, and 'MANU A' at the bottom right.</p>	<p>Select the desired group</p> <p>Then press the E button several times until an A appears in the lower right-hand side of the display (A = all receivers).</p> <p>Notice the display:</p> <p>If the various receivers in the group have different settings, the AUTO and the MANU indication will appear in the display.</p>
2.	<p>OK</p> <p>Press for approx. 1 sec.</p>	 <p>The display shows 'MO' at the top left, '9:35' in the center, and 'AUTO A' at the bottom right.</p>	<p>Activating and deactivating automatic operation</p> <p>AUTO = Automatic operation on</p> <p>MANU = Automatic oper. off</p> <p>ATTENTION</p> <p>If the receivers have different settings, then first of all receivers will be changed to AUTO.</p> <p>ADVICE</p> <p>If the automatic data transmission was activated in expert mode (see page 55, point 20, factory setting = OFF), then you will be requested to transmit data at this point (see page 38).</p>

Activating/deactivating autom. operation for a receiver in the menu

	Buttons	Indication in the display	
1.			Open the menu
2.	 /  		Select and open Auto/Manu (AUTO MANU)
3.	 / 		Select the desired group and receiver
4.			Activating automatic operation (AUTO)
			Deactivating automatic operation (MANU) Example: Group 5; window 3 = patio Automatic operation is switched off
5.	 / 		After every switchover, data transmission will begin at once. Press the UP (▲)/DOWN (▼) button again if the receiver does not react to the data transmission.
6.			Quit the menu

Activating/deactivating autom. operation for a group in the menu

	Buttons	Indication in the display	
1.			Open the menu
2.	 		Select and open Auto/Manu (AUTO MANU)
3.			Select the desired group Then press the E button several times until an A appears in the lower right-hand side of the display (A = all receivers).
4.			Activating/deactivating automatic operation for the whole group
5.			Quit the menu. ADVICE If the automatic data transmission was activated in expert mode (see page 55, point 20, factory setting = OFF), then you will be requested to transmit data at this point (see page 38)

▼ Standard switching times for UP/DOWN (group function)

The same switching times for all days of the week This function allows you to set an opening and closing time for each group. The opening and closing times apply for all days of the week.

ADVICE You can allocate different opening and closing times for all groups which you have set up.

Deactivating of switching times The setting OFF and 0:00 does not result in a switching command.

▼ Changing the standard switching times for UP/DOWN

	Buttons	Indication in the display	
1.	M	ADJUST 0	Open the menu
2.	▲ / ▼ OK	E ON OFF AUTO MANU	Select and open the standard switching times (▼)
3.	G	OPENING 7:00	Select group e.g. group 5
4.	▲ / ▼ OK	5▲ A	Set the opening time (▲) (hours/minutes)
5.	▲ / ▼ OK	CLOSING 20:30 5▼ A	Set the closing time (▼) (hours/minutes)
6.	M	01-01-08 MO 9:35 ^h AUTO	Quit the menu. ADVICE If the automatic data transmission was activated in expert mode (see page 55, point 20, factory setting = OFF), then you will be requested to transmit data at this point (see page 38).

With the weekly timer you can set individual opening and closing times.

Weekday/weekend timer Here you can set four switching times:

1	x	opening time	valid for Mon to Fri
1	x	closing time	valid for Mon to Fri
1	x	opening time	valid for Sat and Sun
1	x	closing time	valid for Sat and Sun

Individual day timer Here you can set different opening and closing times for each day of the week; 14 switching times in total.

The setting OFF and 0:00 does not result in a switching command. Standardschaltzeiten AUF/AB (Gruppenfunktion)

ADVICE The standard switching times are switched off (OFF) at first when you activate the weekly timer.





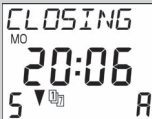



- ◆ Accordingly, only the switching times set in the weekly timer are active.
- ◆ The standard switching times can be switched on again in addition. As a result you can set 4 switching times per day if required.

ADVICE You can allocate a separate weekly timer with different daily switching times to each group. It is possible to change to a different group at any time, as the settings are permanently saved after each input.



Setting the weekly timer

	Buttons	Indication in the display	
1.			Open the menu
2.	 		Select and open the weekly timer
3.			Select group e.g. group 5
4.		 	Select the operating mode ◆ Switch off weekly timer or ◆ Weekday/weekend timer or ◆ Individual day timer
4.a			Confirm the operating mode
5.	 		Set the weekday/weekend timer Set the... <ol style="list-style-type: none"> opening time for Mon to Fri closing time for Mon to Fri opening time for Sat and Sun closing time for Sat and Sun or (see next page)

	Buttons	Indication in the display	
5.a	 /  	 	<p>Set the individual day timer</p> <p>Set the opening and closing times for each day of the week from Monday to Sunday.</p> <p>Confirm each input with .</p>
6.			<p>Quit the menu</p> <p>ADVICE If the automatic data transmission was activated in expert mode (see page 55, point 20, factory setting = OFF), then you will be requested to transmit data at this point (see page 38).</p>

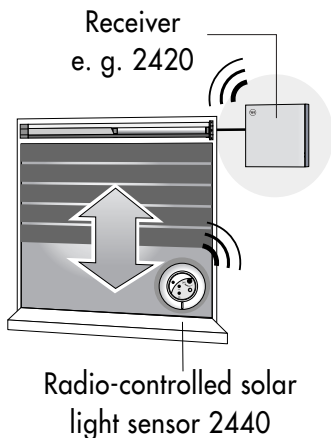


Automatic sunlight protection mode

Light-dependent control The automatic sunlight protection mode allows you, together with the Fernotron radio-controlled solar light sensor (art. no. 2440), to control your roller shutter/Venetian blinds or other electric devices (such as lights) according to the brightness of the light. The light sensor is attached to the inside of the window pane with suction pads.

The automatic sunlight protection mode regulates the automatic raising and lowering process once a set limiting value has been exceeded.

Principle of operation



- ADVICE**
- ◆ The automatic sunlight protection mode can only be used if the sun position has been set for the receiver (see page 50).
 - ◆ To ensure that the automatic sunlight protection mode does, in fact, work, the receiver concerned must have activated automatic operation (e.g. group 1, receiver 1 = AUTO).
 - ◆ If necessary, you can activate or deactivate the automatic sunlight protection mode for each individual window with the aid of the Programming Centre.



Activating/deactivating the automatic sunlight protection mode

	Buttons	Indication in the display	
1.			Open the menu
2.	 		Select and open sunlight protection (☀)
3.			Select group and receiver
4.			Activating/Deactivating the automatic sunlight mode On = ON OFF = OFF (factory setting)
5.	 		If desired, select the next receiver and activate/deactivate the automatic sunlight protection mode or
6.			Quit the menu ADVICE If the automatic data transmission was activated in expert mode (see page 55, point 20, factory setting = OFF), then you will be requested to transmit data at this point (see page 38).

Automatic dusk operation with astro function

The automatic dusk mode regulates the automatic closing of a roller shutter or, if necessary, the switching on of a light source or another electric device.

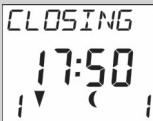

Astro function The time for the DOWN command depends upon the date and the geographic location.

ADVICE The astro function will only be performed correctly if you have entered the corresponding postcode in expert mode (see page 51/no. 8; factory setting = 46).

Activating/deactivating the automatic dusk mode

	Buttons	Indication in the display																						
1.	M	DATA TRA	Open the menu																					
2.	▲ / ▼ OK	E ON OFF AUTO MANU	Select and open automatic dusk operation (☾)																					
3.	G / E		Select the group and receiver																					
4.	▲ / ▼ OK	TWILIGHT On	Switch automatic dusk mode on/off On = ON OFF = OFF (factory setting)																					
5.	▲ / ▼ OK	MINUTES - 40	Set time delay With the aid of the time delay you can change the closing time of the automatic dusk mode by +/- 60 minutes (in increments of = 10 min.)																					
		The automatic dusk mode closes (xx) minutes ...	<table border="1"> <thead> <tr> <th>...earlier</th> <th>or</th> <th>later</th> </tr> </thead> <tbody> <tr> <td>-10</td> <td></td> <td>10</td> </tr> <tr> <td>-20</td> <td></td> <td>20</td> </tr> <tr> <td>-30</td> <td></td> <td>30</td> </tr> <tr> <td>-40</td> <td></td> <td>40</td> </tr> <tr> <td>-50</td> <td></td> <td>50</td> </tr> <tr> <td>-60</td> <td></td> <td>60</td> </tr> </tbody> </table>	...earlier	or	later	-10		10	-20		20	-30		30	-40		40	-50		50	-60		60
...earlier	or	later																						
-10		10																						
-20		20																						
-30		30																						
-40		40																						
-50		50																						
-60		60																						

(Activating/deactivating the automatic dusk mode

	Buttons	Indication in the display	
6.	OK		<p>The actual lowering time (incl. time delay) will be calculated for the current day.</p> <p>ADVICE The latest lowering time is 23:59.</p>
7.	M		<p>Quit the menu</p> <p>ADVICE If the automatic data transmission was activated in expert mode (see page 55, point 20, factory setting = OFF), then you will be requested to transmit data at this point (see page 38).</p>



Automatic random operation

This setting results in a random delay of the set switching time of between 0 and 30 minutes.

ADVICE Automatic random operation does not apply for the dusk times.



Activating/deactivating automatic random operation

	Buttons	Indication in the display	
1.			Open the menu
2.	 		Select and open automatic random operation
3.			Select group and receiver
4.			Switch on automatic random operation On = ON OFF = OFF (factory setting)
5.	 		If desired, select the next receiver and switch on automatic random operation
6.			Quit the menu ADVICE If the automatic data transmission was activated in expert mode (see page 55, point 20, factory setting = OFF), then you will be requested to transmit data at this point (see page 38).



Transmitting the current time/date to the receiver

IMPORTANT When changing over from summer to winter time and vice versa and also after a lengthy power cut, you must transmit the current time and date to each receiver.

ADVICE For the summer/winter time changeover you can transmit the „Time and date“ automatically to the receiver. To do so, you must activate and set the function „SU/WI transmission time“ in expert mode (see page 52/54).

	Buttons	Indication in the display	
1.			Open the menu
2.			Select and open clock time (🕒)
3.			Perform time and data transmission to all receivers at the same time
4.			Each receiver acknowledges the transmission with a short switching procedure. ADVICE If there is no acknowledgement, press the Stop button again.











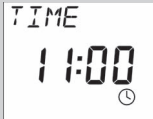









Setting and transmitting clock time / date to receiver

ADVICE If a DCF signal is not received, you can also set the date and clock time via the menu and transmit these to the receivers.

If a time signal is received then it is not possible to alter the data.



Setting and transmitting clock time / date to receiver

	Buttons	Indication in the display	
1.			Open the menu
2.	 		Select and open clock time ()
3.	 		Set and confirm clock time
4.	 		At the same time as the clock time, enter the date () and ◆ day / month / year Confirm each setting with the  button.
5.			Transmit date and clock time to receiver
6.			Quit the menu



Data transmission

Recommendation We recommend performing the data transmission procedure in one go after completing all settings. This saves a lot of time, particularly when carrying out extensive settings or when several Fernotron receivers are involved

Automatic data transmission after every setting If necessary, you can activate the automatic data transmission in expert mode (see page 55, pt. 20, factory setting = OFF). You will then be requested in the display to transmit data after every setting.

In this case you can start the data transmission right from point 6.

	Buttons	Indication in the display	
1.			Perform desired settings
2.	M		Call up the menu
3.	▲ / ▼ OK		Select and open data transmission (📶)
4.	▲ / ▼ or G / E		Select group and/or receiver for data transmission
		▲ / ▼	Select the receiver whose settings you previously altered with the Programming Centre.
		G / E	Select group/receiver numbers.



Data transmission

	Buttons	Indication in the display	
5.			Carry out data transmission This will take 5 seconds, during which there will be a countdown from 5 to 1 in the display. ADVICE The receiver acknowledges the successful data transmission by briefly starting up the connected motor or switching on the connected light.
6.			Confirm data transmission and proceed with the next receiver The programme automatically proposes the next receiver for the data transmission
7.			Abort data transmission By pressing the UP button (▲)/DOWN (▼)-button several times you will also obtain the function „Abort“.
8.			After confirming with OK, the menu appears again. ADVICE The abort is only possible as long as altered data is available for a possible receiver.
9.			Quit the menu



Registration with the Fernotron receiver

If you wish to register the Programming Centre with a Fernotron receiver, for example when retrofitting a new receiver in your existing Fernotron system, you have the following options:

1. Registering with a receiver using the SET button, see below.
2. Registering with a Fernotron radio-controlled tubular motor with radio code, see page 42 and expert mode, page 48.

ADVICE If you wish to re-register the Programming Centre with a previously registered receiver, then any former group allocations in the receiver will be deleted.








Registration with a receiver using the SET button

	Buttons	Indication in the display	
1.	SET	on the receiver	<p>Press SET button on the receiver</p> <p>See operating instructions for the receiver concerned.</p>
2.	M		Call up the menu
3.	/ OK		Select and open the data transmission
4.	G / E		Select group and/or receiver



Registration with a receiver using the SET button

	Buttons	Indication in the display	
5.			In the display you will be requested to press the Stop button.
6.			Perform registration This will take 5 seconds, during which there will be a countdown from 5 to 1 in the display. ADVICE The receiver acknowledges the successful data transmission by briefly starting up the connected motor or switching on the connected light.
7.			Quit the menu



Registr. with a Fernotron radio-controlled tubul. motor with radio code

	Buttons	Indication in the display	
1.			Call up the menu
2.			Select expert mode (E) The menu item flashes.
3.	 keep pressed for approx. 2 sec.		Open expert mode It is important to press the buttons in the correct order: 1. + 2.
4.	 		Select and open the radio code
5.	 		Enter the 5-figure radio code for the tubular motor and confirm each figure with the OK button (see page 48) The tubular motor will be switched on briefly in acknowledgement. After this it will be in the SET mode (input mode). You now have direct contact with the connected tubular motor.
6.			Quit the menu






Registr. with a Fernotron radio-controlled tubul. motor with radio code

	Buttons	Indication in the display	
7.			Open the menu
8.	 		Select and open data transmission
9.			Select group and/or receiver
10.			In the display you will be requested to press the Stop button
11.			<p>Perform registration</p> <p>This will take 5 seconds, during which there will be a countdown from 5 to 1 in the display.</p> <p>ADVICE</p> <p>The tubular motor acknowledges successful registration by starting up briefly.</p>
12.			Quit the menu



Switching the button lock on or off

	Buttons	Indication in the display	<p>The button lock function protects against the settings being altered unintentionally.</p> <p>To use the button lock, you must switch this function on in expert mode, see page 53, pt. 13 (factory setting = OFF).</p>
1.	OK + M	 <p>Normal display with active button lock</p> 	<p>Switch on the button lock </p> <p>It is important to press the buttons in the correct order:</p> <ol style="list-style-type: none"> 1. + 2. <p>Indication in the display after pressing the -button. After this the lock symbol in the display with flash for 3 seconds.</p> <p>ADVICE Manual operation and switching over between Auto/Manu is still possible at any time even when the button lock is active.</p>
1.a		Automatic button lock	<p>The automatic button lock is activated after approx. 2 minutes without any input.</p>
2.	OK + M	 <p>Normal display without button lock</p>	<p>Switch off the button lock </p> <p>It is important to press the buttons in the correct order:</p> <ol style="list-style-type: none"> 1. + 2.

In expert mode (E) there are various special functions available (menu items) which facilitate initial operation and setting up a Fernotron system and adapting it to your particular requirements.













Most settings are not compulsory and only require to be carried out once for the basic setting procedure (e.g. enter the postcode).

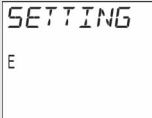
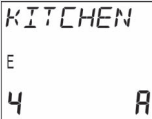
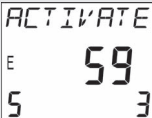
Number	Functions in expert mode
1	Commissioning assistant
2	Selecting/changing group and receiver names
3	Activating SET function (*)
4	Entering radio code
5	Setting of end positions of Rademacher tubular motors (*)
6	Setting the sun position
7	Changing the direction of rotation of tubular motors (*)
8	Entering postcode/time zone
9	Entering maximum number of groups
10	Defining the maximum number of receivers per group
11	Automatic summer/winter time changeover
12	Selecting the language
13	Switching the automatic button lock on/off
14	Setting the contrast for the display
15	Indication of DCF reception quality
16	Switching DCF radio clock on/off
17	Setting light function
18	Setting the SU/WI transmission time
19	Set the moving text velocity
20	Switch automatic data transmission on and off





- * **Direct implementation with radio code (see page 48) (possible even without registered Programming Centre 2411)**











After entering the radio code, this function can be carried out in expert mode directly for the current motor without previously selecting the group and receiver numbers.

E Calling up expert mode (example)

















	Buttons	Indication in the display	
1.			Open the menu
2.			Select expert mode (E) The menu item flashes.
3.	 keep presses for approx. 2 sec.		Open expert mode It is important to press the buttons in the correct order: 1.  + 2. 
4.	 		Select the desired function
5.			Quit the menu



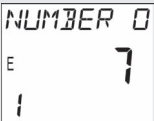
No.	Function/Display	Parameter/Brief explanation
1	<p>Commissioning assistant</p> 	<p>Call up commissioning assistant</p> <p>We recommend this function when taking into operation for the first time. You will be taken automatically through all necessary and important programming steps.</p> <p>Sequence (see page 17 for detailed description):</p> <ol style="list-style-type: none"> 1. Enter postcode/time zone 2. Define number of groups 3. Number of receivers per group 4. Select group names 5. Select receiver names 6. Enter standard switching times 7. Register with receiver and transmit data <p>M Press for 4 sec. and return to normal display</p>
2	<p>Set name Select names for a group or a receiver</p> 	<p>G / E Select group and receiver</p> <p>▲ / ▼ Select and confirm desired designation from the factory settings (see page 13).</p> <p>OK</p> <p>In normal operation the name of the group or the receiver appears in the display.</p>
3	<p>Activate SET-function of receiver</p> 	<p>G / E Select an confirm group and receiver</p> <p>STOP</p> <p>You have 60 seconds in which to register additional trans-mitters with the selected re-ceiver.</p> <p>ADVICE This function is suitable for receivers with SET buttons which are difficult to reach.</p>









No.	Function/Display	Parameter/Brief explanation
4	<p>Enter radio code for a Fernotron radio-controlled tubular motor</p> 	<p>ADVICE Only for Fernotron radio-controlled tubular motors manufactured by Rademacher which have a radio code sticker on the cable.</p> <p> /  Set the radio code. Alter the flashing figure</p> <p> Confirm each figure</p> <p>As soon as you have confirmed the last figure the menu „Radio code“ will appear again.</p> <p>IMPORTANT After entering the radio code you have direct contact with the radio-controlled tubular motor.</p> <p>You can immediately call up and set the following functions without entering a group or receiver number.</p> <ul style="list-style-type: none"> ◆ SET function Register the Programming Centre with the receiver (radio-controlled tubular motor), (see page 40). ◆ Direction of rotation Direct setting of the angle of rotation. ◆ End positions Direct setting of the end positions. <p>ADVICE On the following page we will describe an example of how to directly set the direction of rotation of a radio-controlled tubular motor.</p>















No.	Function/Display	Parameter/Brief explanation
4.a	<p>Change direction of rotation</p> 	<p>IMPORTANT Do NOT select a group or a receiver.</p> <p> /  Select and open the „Direction of rotation“ in the expert menu.</p> <p></p> <p> /  Check the direction of rotation of the motor</p> <p> Change direction of rotation The motor briefly starts up to acknowledge selection.</p> <p> Return to the menu</p>
4.b		<p> Quit the menu</p>

E Overview of all functions and parameters in expert mode



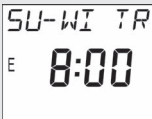
No.	Function/Display	Parameter/Brief explanation
	<p>Advice for menu items 5 / 6 and 7</p>	<p>If the „Light function“ is activated for the selected group (see page 54), the following warning „NOT POSSIBLE“ appears in the display when the UP button (▲)/DOWN button (▼) is pressed.</p>
5	<p>End position setting (only for tubular motors from Rademacher)</p> 	<p> /  Select and confirm group and receiver</p> <p></p> <p> Set the desired end points</p> <p> ADVICE Keep the button depressed until the desired end position is reached, then let go of it again. The desired end position is now saved. As long as the drive is running, the UP (▲) or DOWN (▼) symbol appears in the display.</p>
6	<p>Adjusting the sun position</p> 	<p> /  Select group and receiver and</p> <p> drive the selected motor without stopping from the top into the desired sun position</p> <p></p> <p>ADVICE When the automatic sunlight protection mode responds, the motor will then always run as far as the desired sun position.</p>
7	<p>Change direction of rotation</p> 	<p> /  Select group/receiver</p> <p> Check the direction of rotation of the motor. Change the direction of rotation</p> <p></p> <p>The motor briefly starts up to acknowledge selection.</p>









No.	Function/Display	Parameter/Brief explanation
8	<p>Set the postcode/time zone for the astro function</p> 	<p>▲ / ▼ 01 to 255 OK 01 to 99</p> <p>Postcode in Germany (the first two figures)</p> <p>100 to 255 Different European cities, see table on page 59.</p> <p>ADVICE In the case of three-digit numbers the place is indicated directly in the display.</p>
9	<p>Set the maximum number of groups</p> 	<p>▲ / ▼ 1 to 7 OK</p> <p>You can create a maximum of 7 groups</p> <p>ADVICE Subsequent alteration of the number of groups is possible at any time.</p>
10	<p>Define the maximum number of receivers per group</p> 	<p>1 to a maximum of 7 receivers per group</p> <p>G Select group</p> <p>▲ / ▼ Set the number of receivers OK</p> <p>ADVICE Subsequent alteration of the number of receivers is possible at any time.</p>

No.	Function/Display	Parameter/Brief explanation
11	<p>Automatic summer/ winter time changeover</p> 	<p> /  On and OFF</p> <p> On = ON (factory setting) Despite the lack of a DCF signal, the summer/winter time changeover will be performed in the Programming Centre</p> <p>OFF = Off</p> <p>ADVICE A change from summer to winter time and vice versa requires the manual transmission of the current time and the current date to each receiver (see page 36). If desired, the changeover between summer and winter time can be carried out automatically for all receivers (see page 54, pt. 18).</p>
12	<p>Select language</p> 	<p> /  Set desired language</p> <p> Confirm language</p> <p>Languages:</p> <ul style="list-style-type: none"> 1 = German (factory setting) 2 = English 3 = Spanish 4 = French 5 = Dutch




No.	Function/Display	Parameter/Brief explanation
13	<p>Automatic button lock</p> 	<p> /  On and OFF</p> <p> On = on</p> <p>OFF = off (factory setting)</p> <p>To protect the Programming Centre from inadvertent adjustment, you can activate an automatic button lock.</p> <p>2 minutes without input</p> <p>If the automatic button lock is switched on and no input is entered for a period of 2 minutes, the buttons are locked automatically.</p> <p>ADVICE</p> <ul style="list-style-type: none"> ◆ Manual operation and switching over between AUTO/MANU is possible at any time despite the button lock.  +  ◆ Temporary release of button lock.
14	<p>Contrast setting</p> 	<p> /  1 to 10</p> <p> 1 = low contrast</p> <p>5 = factory setting</p> <p>10 = high contrast</p>
15	<p>Indication of quality of DCF reception</p> 	<p> /  0 to 5 (no setting options)</p> <p> 0 = no reception</p> <p>5 = good reception</p> <p>ADVICE</p> <p>It takes a few seconds until the indication is displayed.</p>

E Overview of all functions and parameters in expert mode

No.	Function/Display	Parameter/Brief explanation
16	<p>Switching DCF radio clock on and off</p> 	<p>▲ / ▼ OK</p> <p>On and OFF</p> <p>On = DCF radio clock on (factory setting)</p> <p>OFF = DCF radio clock off</p> <p>ADVICE Set to OFF if no DCF signal is to be, or can be, received (beyond a radius of approx. 1000 km around Frankfurt). For example, too, if you use the Programming Centre in a different time zone.</p>
17	<p>Set light function per group</p> 	<p>▲ / ▼ OK</p> <p>On and OFF</p> <p>On = Light function on</p> <p>OFF = Light function off (factory setting)</p> <p>When electrical devices are connected, „On and OFF“ appears in the display. This also applies too for the switching times.</p>
18	<p>Set SU/WI transmission time</p> 	<p>▲ / ▼ OK</p> <p>Set a time at which the changeover between summer and winter time should be transmitted to all groups/receivers (e. g. 08:00).</p> <p>Set desired transmission time (hours/minutes) and confirm</p> <p>Option:</p> <p>OFF = The SU/WI time changeover will not be transmitted (factory setting)</p>

No.	Function/Display	Parameter/Brief explanation
18	Set SU/WI transmission time	<p>ADVICE</p> <p>Check whether all receivers have received the new time.</p> <p>Due to structural restrictions to the radio range, it can occasionally happen that a receiver does not receive the time.</p> <p>In this case you must transmit the summer/winter time changeover manually (see page 36).</p>
19	Set moving text velocity 	<p> /  Set and confirm the desired velocity</p> <p></p> <p>1 = slow</p> <p>2 = medium (factory setting)</p> <p>3 = fast</p>
20	Switching the automatic data transmission on/off 	<p> /  On and OFF</p> <p></p> <p>On = Automatic data transmission is switched on.</p> <p>ADVICE</p> <p>After each change to your settings, you will automatically be requested to transmit the data.</p> <p>OFF = Automatic data transmission is switched off (factory setting).</p>

R Deleting settings/resetting

	Buttons	Indication in the display	
1.	 Press for 8 seconds		Software reset Hold all four buttons pressed at the same time for 8 seconds
2.			The following messages then appear in quick succession: <ul style="list-style-type: none">◆ Version number and indication of the top row◆ Indication of all symbols◆ After this the display goes off.
3.	Release the buttons		All settings are deleted. The factory settings now apply, see page 63.



Manual operation

ADVICE With the Fernotron Programming Centre you can manually operate every group and every device (such as roller shutters/light/garden pump etc.) connected to the Fernotron receivers.

	Buttons	Indication in the display	
			Manual operation of a group You wish, for example, to manually open all roller shutters in group 5
1.			Select group 5
2.			Set receiver to A (for all)
3.a			Example: Open all roller shutters Move the roller shutters to the upper end position
3.b			Stop all roller shutters while they are being raised
3.c			Close all roller shutters ADVICE If you wish to operate one particular roller shutter, then in point 2 you must not enter „A“ but rather the number of the desired receiver (e.g. B. 3). All other functions are handled the same way as the above steps.
4.			Manual operation of all groups Set groups to „A“ (all) and proceed with point 3.a to 3.c

TD Technical data

Fernotron Programming Centre,	item No. 2411
Supply voltage:	3 V
Battery type:	2 x 1.5 V type AAA (micro)
Battery life: approx.	1 year
Transmission frequency:	433.92 MHz
Transmission power:	10 mW
Clock:	DCF radio clock
DCF reception (range):	approx. 1000 km from Frankfurt/Main
Max. number of groups:	7
Receivers per group:	7
Total number of receivers:	49
Ambient conditions:	Device may only be used in dry rooms.
Dimensions:	54 x 142 x 24 mm

TD Technical data/ battery change

If the batteries are almost empty then a battery symbol flashes in the display. We recommend replacing the batteries in this case. The battery compartment is located on the rear of the Programming Centre.

ADVICE Ensure that the polarity of the batteries is correct. The correct polarity is displayed on the floor of the battery compartment. Use only the following batteries:
2 x 1.5 V type AAA (micro)

Belgium

- 100 Arlon
- 101 Antwerp
- 102 Bruges
- 103 Brussels
- 104 Liege
- 105 Mechelen
- 106 Mons
- 107 Ostend

Denmark

- 108 Aalborg
- 109 Ringsted
- 110 Esbjerg
- 111 Horsens
- 112 Kolding
- 113 Copenhagen
- 114 Svendborg
- 115 Randers

UK

- 116 Aberdeen
- 117 Birmingham
- 118 Bristol
- 119 Glasgow
- 120 London
- 121 Manchester
- 122 Newcastle

Estonia

- 123 Tallinn

Finland

- 124 Helsinki
- 125 Jyväskylä
- 126 Oulu
- 127 Tampere
- 128 Turku
- 129 Vasa

France

- 130 Bordeaux
- 131 Brest
- 132 Dijon

- 133 Le Havre
- 134 Lyon
- 135 Montpellier
- 136 Nantes
- 137 Nice
- 138 Paris
- 139 Reims
- 140 Strasbourg
- 141 Toulon

Italy

- 142 Bologna
- 143 Bolzano
- 144 Florence
- 145 Genoa
- 146 Milan
- 147 Naples
- 148 Palermo
- 149 Rome
- 150 Torino
- 151 Venice

Ireland

- 152 Cork
- 153 Dublin
- 154 Belfast

Latvia

- 155 Riga

Lichtenstein

- 156 Vaduz

Lithuania

- 157 Vilnius

Luxembourg

- 158 Luxembourg

Netherlands

- 159 Amsterdam
- 160 Eindhoven
- 161 Enschede
- 162 Groningen
- 163 Maastricht

- 164 Rotterdam
- 165 Utrecht

Norway

- 166 Oslo
- 167 Stavanger
- 168 Bergen
- 169 Trondheim

Austria

- 170 Amstetten
- 171 Baden
- 172 Braunau
- 173 Brixen
- 174 Bruck/Mur
- 175 Eisenstadt
- 176 Graz
- 177 Innsbruck
- 178 Klagenfurt
- 179 Landeck
- 180 Linz
- 181 Nenzing
- 182 Salzburg
- 183 Vienna

Poland

- 184 Wroclaw
- 185 Bromburg
- 186 Gdansk
- 187 Katowice
- 188 Krakow
- 189 Lodz
- 190 Lublin
- 191 Poznan
- 192 Szczecin
- 193 Warsaw

Portugal

- 194 Faro
- 195 Lisbon
- 196 Porto

Switzerland

197	Basel
198	Berne
199	Andermatt
200	Chur
201	Lausanne
202	Lucerne
203	Zurich

Sweden

204	Boras
205	Gävle
206	Göteborg
207	Helsingborg
208	Jönköping
209	Östersund
210	Malmö
211	Stockholm
212	Sundsvall
213	Umea

Spain

214	Almería
215	Alicante
216	Barcelona
217	Bilbao
218	Badajoz
219	Burgos
220	Cáceres
221	Castellón
222	Granada
223	Guadalajara
224	La Coruña
225	Lérida
226	León
227	Madrid
228	Murcia
229	Oviedo
230	Palma
231	Pamplona
232	San Sebastián
233	Seville
234	Santander

235	Valencia
236	Valladolid
237	Vitoria
238	Zaragoza
239	La Palma
240	Tenerife
241	Grand Canary
242	Fuerteventura

South-East Europe

243	Athens
244	Belgrade
245	Bratislava
246	Bucharest
247	Budapest
248	Istanbul
249	Maribor
250	Prague
251	Sarajevo
252	Sofia
253	Skopje
254	Thessaloniki
255	Zagreb



Warranty conditions

Rademacher Geräte-Elektronik GmbH & Co. KG warrants all new devices that are installed in accordance with the installation instructions for 24 months. The guarantee covers all design faults, material defects and production faults.

The warranty does not cover:

- ◆ Incorrect mounting or installation
- ◆ Non-observance of the installation and operating instructions
- ◆ Improper operation and use
- ◆ External influences such as knocks, blows or weather
- ◆ Repairs and modifications performed by unauthorised third parties
- ◆ Use of unsuitable accessories or spare parts
- ◆ Damage caused by inadmissible over-voltage (e.g. caused by lightning)
- ◆ Dysfunction caused by superimposed radio frequencies and other radio interferences

Rademacher will rectify all faults occurring during the warranty period free of charge by either repairing or replacing the parts concerned or by supplying an equivalent or new device. The supply of spare parts or performance of repairs under the warranty does not extend the original warranty period.

RADEMACHER

Geräte-Elektronik GmbH & Co. KG

Buschkamp 7

46414 Rhede

Telefon +49 2872 933-171

Telefax +49 2872 933-251

info@rademacher.de

www.rademacher.de

Service:

Telefon +49 2872 933-174

Telefax +49 2872 933-253

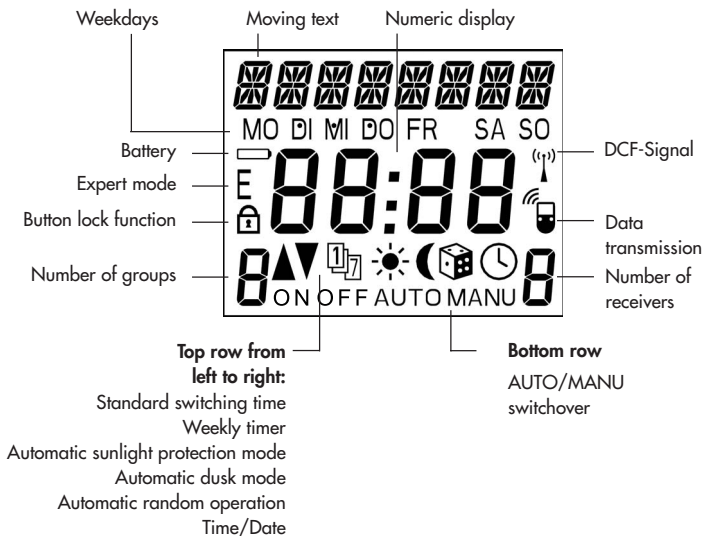
service@rademacher.de



Quick user guide

1.			Call up the menu
2.	/	/	Select and open a function
3.			Exit the menu
Call up and start commissioning assistant			
1.	/	+ for 2 sec.	Select and open expert mode(E)
2.	/	/	Select and carry out commissioning assistant
3.			Carry out all settings
Set standard switching times			
1.	/	/	Select and open standard switching times
2.			Select group
3.	/	/	Set opening and closing time
4.			Exit the menu
5.		/	Select and perform data transmission
Switch automatic sunlight protection mode on and off			
1.			Set sun position, see page 50
2.	/	/	Select and open automatic sunlight protection mode
3.	/		Select receiver
4.	/	/	Switch on automatic sunlight protection mode
5.			Exit the menu
6.		/	Select and perform data transmission

i Display overview / factory settings



Factory settings	Opening time	Closing time	for group
Standard programme:	7:00	20:00	(G1 - G7)
Weekly programme:	7:00	20:00	(G1 - G7)
Individual day programme:	7:00	20:00	(G1 - G7)
Weekly programme:	OFF	Postcode/time zone:	46
AUTO:	ON	DCF radio clock:	ON
Automatic sunlight mode:	OFF	Autom. SU/WI time changeover:	ON
Automatic dusk mode:	OFF	Automatic data transmission:	OFF
Automatic random mode:	OFF	Language:	German
LCD contrast:	5	Number of groups:	7
Automatic button lock:	OFF	Receivers per group:	7
SU/WI transmission time	OFF		