

# UNI 12/22

## UNI 12/22 RC

Automatic Sunshade Control



Installation and Operating Instructions



### Safety precautions



- Please note, that the control requires a power supply of 230VAC, 50 Hz. Contact a professional electrician for the installation as well as for basic settings.
- Check the control system for signs of mechanical damage after unpacking. If you notice any shipping damage, do not start up the control system and notify your supplier immediately.
- The control system should only be used for the purpose specified by the manufacturer (refer to the operating instructions). Any changes or modifications thereof are not permissible and will result in loss of all warranty claims.
- If the control unit cannot be operated without presenting a hazard, it must be switched off and prevented from being switched on unintentionally.
- When performing work on the windows, controls or connected shades, protect them against unauthorised or unintentional operation.
- If the control system is not connected to a rain or frost detectors, we recommend for safety reasons to set the control (depending on the sunshade design) to manual operation at temperatures below +1 °C (32 °F). That way, automatic extending at sunlight can be avoided.

## Contents

Safety precautions	page 50
Introduction	page 52
Additional accessories	page 53
Overview operating elements UNI 12 / UNI 12 RC	page 54
Overview operating elements UNI 22 / UNI 22 RC	page 55
Manual operation	page 56 – 57
Automatic operation	page 58 – 59
Hand-held radio transmitter UNI 12/22 RC	page 60
Sensors	page 61
LED Sun signal	page 62 – 63
LED Wind meter	page 64
Wind meter	page 65
Rain sensor	page 66 – 67
Room thermostat	page 68
Time functions	page 69 – 70
Reversing pulse / Info button	page 71
Plain text display	page 72 – 75
Notes for professional electricians	page 76 – 77
Wiring diagram UNI 12 / UNI 12 RC to decentralized controls	page 78
Wiring diagram UNI 22 / UNI 22 RC to decentralized controls	page 79
Wiring diagram UNI 12 / UNI 12 RC with direct motor connection	page 80
Wiring diagram UNI 22 / UNI 22 RC with direct motor connection	page 81
Setting the rain sensor sensitive	page 82
Basic settings	page 83 – 88
SET button	page 89
Adjustable values and times	page 90 – 92
Programming the radio transmitter UNI 12/22 RC	page 93 – 95
Technical data	page 96

## Introduction

Congratulations for buying the control. You have purchased a high-quality product that features many practical functions and has been manufactured according to the highest quality standards.

Please take the time to read these operating instructions carefully prior to starting up in order to guarantee optimum efficiency and reliability.



**UNI 12**

Article-no. 01093510

**UNI 12 RC**

Article-no. 01093610



**UNI 22**

Article-no. 01093310

**UNI 22 RC**

Article-no. 01093410

## Additional accessories

The following accessories are optionally available for the UNI 12/22 control:

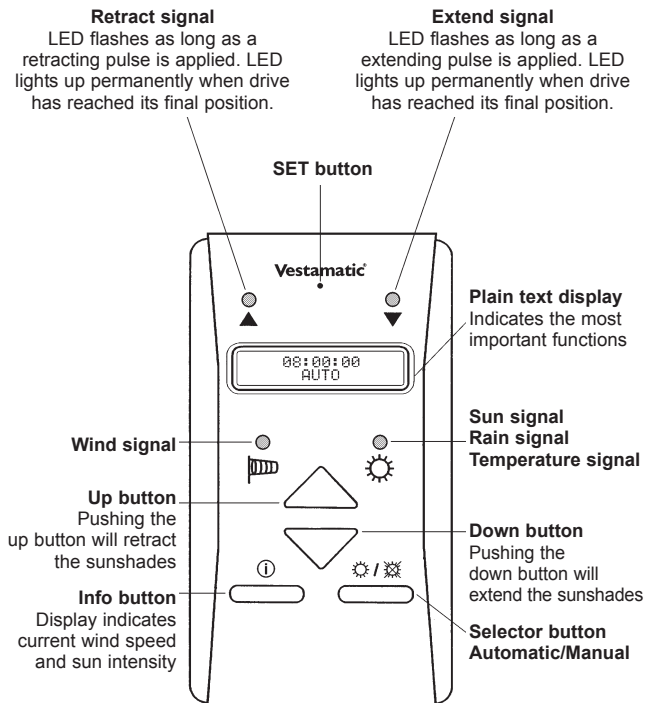
Light sensor LS30,	article-no. 01161210
Wind meter WS XS Tube,	article-no. 01100410
Wind meter WS Classic M,	article-no. 01100235
Combined sensor WM3,	article-no. 01305700
Rain sensor RD +1 °C (32 °F),	article-no. 010830
Rain sensor RD -20°C (-4 °F),	article-no. 010825
Room thermostat TE Indoor,	article-no. 01100271

The following accessories are optionally available for the UNI 12/22 RC control:

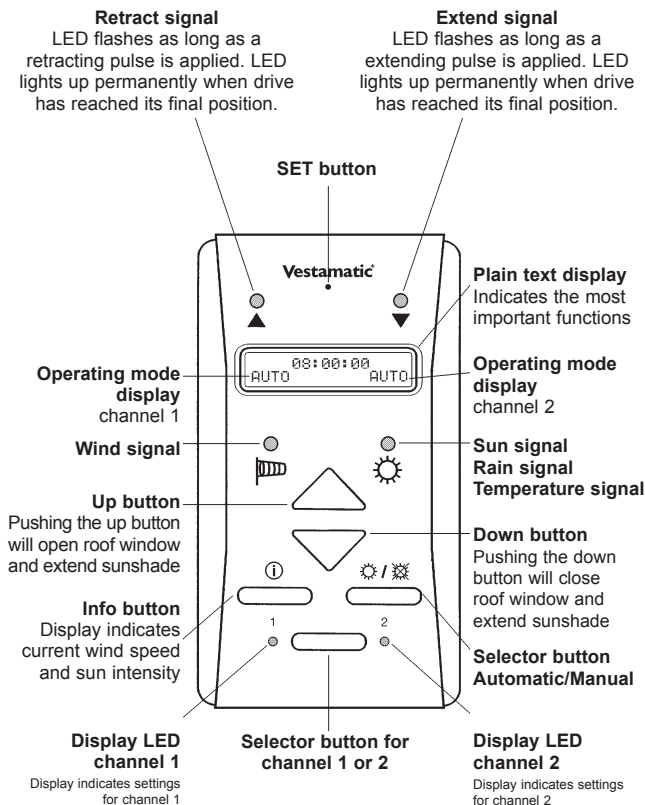
Hand-held radio transmitter, 4-channel article-no. 01097110

Parallel connection of the wind meter inputs of up to 2 devices (please see wiring diagram on page 78 to 81) makes it possible to use only one wind meter for several UNI 12/22 controls.

## Overview operating elements UNI 12/UNI 12 RC



## Overview operating elements UNI 22/UNI 22 RC



## Manual operation

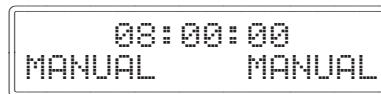
### Manual operation for UNI 12 / UNI 12 RC

Push the selector button "Automatic/Manual" until the display indicates the operating mode "Manual":



### Manual operation for UNI 22 / UNI 22 RC

Push the selector button "channel" until the respective yellow LED lights up. Then push the selector button "Automatic/Manual" until the display indicates the operation mode "Manual" for the selected channel:



In this example, the automatic function for both channels is disabled.

## Manual operation



### ATTENTION!

If the wind speed exceeds the preset threshold value or either rain and frost are detected, the sunshade will immediately be retracted. For safety reasons, the sunshade can now neither be extended in the automatic operation nor in the manual operation.

The sunshades can now be operated with **up** or **down** button on the UNI 12/22 device, an optional external button or a radio remote control (only UNI 12 RC / UNI 22 RC).

If you push the **up** or **down** button, the connected sunshades will be retracted or extended. Operation and direction of travel will be indicated by the flashing LED in the upper section of the control. Simply push the opposite button to stop the motion, i.e.

- push the **up** button, if the sunshade is extending,
- push the **down** button, if the sunshade is retracting.

This ensures accurate positioning of the sunshade. If the motion was not interrupted manually, the corresponding LED will flash continuously after the motor run time has elapsed and indicate the present status of the sunshade.

If you desire manual sunshade operation even for rain or frost, please make sure to have this safety function deactivated by a professional electrician.

## Automatic operation

### Automatic operation for UNI 12 / UNI 12 RC

Push the selector button “Automatic/Manual” until the display indicates the operating mode “Auto”:



08:00:00  
AUTO

### Automatic operation for UNI 22 / UNI 22 RC

Push the selector button “channel” until the respective yellow LED lights up. Then push the selector button “Automatic/Manual” until the display indicates the operation mode “Automatic” for the selected channel:



08:00:00  
AUTO                      MANUAL

In this example, the automatic function is activated for channel 1. Channel 2 is still in the manual operation.

## Automatic operation

In this operation mode, the sunshades extend automatically as soon as the required values are attained.

The signal LEDs beneath the display must either light up **green** or be flashing in order for the sunshade to automatically extend. If minimum one of the LEDs does not light up green or flash, the sunshade will retract.

The automatic operation can always be interrupted by pushing the corresponding direction button, provided that the wind speed threshold value is not exceeded.

The individual functions will be explained more detailed on the following pages.

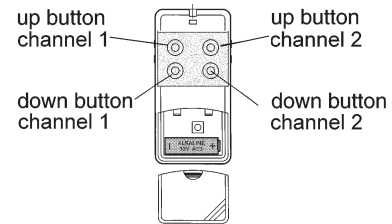
After switching from manual to automatic operation, the last pending command will be executed.

## Hand-held radio transmitter UNI 12/22 RC

The UNI 12/22 RC control provide wireless radio control for your sunshade. By means of a hand-held radio transmitter, you can independently operate your sunshade according to your requirements.

The operating elements of the hand-held radio transmitter are arranged as follows:

### 4-channel hand-held radio transmitter:



If the LED on the hand-held transmitter no longer lights up after pushing the button or the reach of the hand-held transmitter is significantly diminished, the battery must be exchanged. Use a 12 V battery (Type 23A, 23L, EL 12, VR 22 or MN 21).

Please perform the following steps:

- Unlatch the cover cap on the front side of the hand-held radio transmitter.
- Remove the used battery from the hand-held radio transmitter.
- Insert the new battery into the hand-held radio transmitter (observe the +/- polarity).
- Latch the cover cap on the front of the hand-held radio transmitter.

## Sensors

For optimum sun protection, a number of sensors can be connected to the UNI 12/22 control, that supply the automatic control with data. The basic functions of the individual sensors can be described as follows.

Light sensor	This sensor measures the outdoor light intensity in kLux and controls the sunshade accordingly.
Wind meter	This sensor measures the wind speed in m/s or km/h. If the preset threshold value is exceeded, the sunshade will retract in order to avoid damage.
Rain sensor	This sensor measures precipitation and outdoor temperature. In case of precipitation or danger of frost, the sunshade will immediately retract in order to avoid damage.
Room thermostat	This sensor measures the indoor temperature and controls the sunshade according to the desired room temperature. The connected sensors operate in dependency to each other and have different priorities. The LEDs for sun signal or wind signal indicate the present status of the sensors.

The function of the corresponding signals will be explained on the following pages.

## LED Sun signal

The LED sun indicates the following statuses:

**LED lights up green:** The temperature preset by the room thermostat is attained, the preset sun intensity threshold value is exceeded, no rain alarm or frost messages are displayed.

**LED lights up red:** The temperature preset by the room thermostat is not attained, the sun intensity is below the threshold value, or rain alarm is signalled.

**LED lights up yellow:** Frost message.

**LED flashes red:**  
(response delay is activated) The response delay is activated. When all other pre-conditions are fulfilled, the sunshade will extend after the preset delay time has elapsed.

**LED flashes green:**  
(reset delay is activated) The temperature is below the preset temperature value. The sunshades will retract after the preset delay time has elapsed.



### IMPORTANT!

The sunshade will immediately be retracted, as soon as rain or frost is detected and cannot be extended even in the manual operation.

## LED Sun signal

If you wish manual operation of the sunshade in case of rain or frost, please have this function (Menu Basic settings, Point 10 Rain priority, page 87) deactivated by a professional electrician.

### Please note for all connected accessories:

The sunshade will only retract or extend after the preset response and reset delays have elapsed without interruption.

## LED Wind meter



### ATTENTION!

If no wind meter is connected (please read chapter basic settings on page 85), the LED will always light up green.

**LED lights up green:** No wind alarm.

**LED lights up red:** Wind alarm.  
The sunshade will be retracted and can not be extended even if all other pre-conditions are fulfilled.

**LED flashes red:**  
(reset delay is activated)  
The wind speed threshold has been exceeded, but it's not exceeded at present. No wind alarm is present. The sunshade can only be extended after the preset delay has elapsed and all other pre-conditions are fulfilled.

**LED flashes green/red:** The wind meter has not received any signals for the last 48 hours and may be mechanically jammed.



### IMPORTANT!


If the wind speed threshold value is exceeded, sunshades will retract without delay and cannot be extended even in the manual operation.

Pushing the info button will indicate the current wind speed and sun intensity on the display.



### Wind meter

If the air vanes of the wind meter have not moved for 48 hours (1.5 minutes in the test mode), the display will indicate the message:



TIME-OUT !  
CHECK WINDSENSOR

Simultaneously, the wind meter LED will alternately flash red and green.

In case this message is indicated, check if the externally installed wind meter is damaged.  
(See also display messages on page (72 – 75).

### Rain sensor

In order to protect the sunshade, a rain sensor can be connected to the UNI 12/22 control. Please note the operating instructions for the rain sensor.

When rain is detected, the sunshade will retract without delay and the display will indicate:



RAIN ACTIVE

The LED sun signal will now light up red. If the rain sensor is no longer activated, the sunshade will extend after the preset rain reset delay has elapsed, provided that all other pre-conditions are fulfilled.

If the outdoor temperature falls below +1 °C (32 °F), the sunshade will retract without delay and the display will indicate:



SNOW ACTIVE

### Rain sensor



#### **WARNING!**

If you select manual operation for rain or frost, these messages will not be displayed.

The LED sun signal will now light up yellow. If the temperature increases, the sunshade will retract after the preset frost and rain reset delay has elapsed, provided that all other conditions are fulfilled.

### Room thermostat



#### **ATTENTION!**

The room thermostat function will be ignored in the manual operation. Automatic control of the sunshade cannot be carried out.

The control can be connected to a commercially available room thermostat (break contact).

By means of the thermostat, the sun can heat up the room to the desired temperature before the sunshade extends the sunshade. The temperature triggered control must be disabled. Please refer to the section "Adjustable values and times".

If the preset room temperature is exceeded, the sunshade will extend without delay, provided that all pre-conditions are fulfilled.

If the temperature falls below the preset value, the sunshade retracts after the preset temperature reset delay has elapsed to allow the room temperature to heat up to the preset value.

## Time functions

The control features several integrated time functions.

You can program the time when a retract or extend command shall be executed.

All times can be individually programmed. If the control is in the automatic operation, the retract or extend command will be executed when the preset time has been reached.

From page 91 following, you can find information on how to program your sunshade control.

If you want to deactivate the time function, disable the retract or extend time by setting the time until the display indicates --:--. Deactivate the time between 23:59 and 00:00.

In addition, you can program a time period, during which the automatic control will be deactivated. During this selected time period, no automatic retract or extend command triggered by sun or temperature will be executed.

In order to activate this function, set start and end of the time periods to the desired time:



If you do not want to use this function, deactivate it by selecting the start of the time period. Deactivate the time between 23:59 and 00:00.

## Time functions



### ATTENTION!

**All safety related functions (rain, frost, wind) will also be executed during the time function.**

### Example for a time function:

Example 1:

You want your sunshade to be extended at 08:00 o'clock in the morning and be retracted at 16:00 o'clock in the afternoon. During this time period, neither sun nor temperature triggered commands shall be executed. After 16:00 o'clock, the sunshade shall be retracted and extended triggered by the sun.

Set the time function as follows:

Time control Retract: 16:00      Time period Start: 08:00  
Time control Extend: 08:00      Time period End: 16:00

Example 2:

You want your sunshade to be retracted after 21:00 o'clock in the evening and by no means be extended before 09:00 o'clock. After 09:00 o'clock the sunshade shall be retracted or extended triggered by the sun.

Set the time function as follows:

Time control Retract: 21:00      Time period Start: 21:00  
Time control Extend: - - - -      Time period End: 09:00

## Reversing pulse

The control can send a reversing pulse to the connected motor after the sunshades are extended. Awning or blind will shortly move into the opposite direction (retract) in order to tighten the awning cloth or accurately position the slat angle of the blinds (for settings please see page 91).

The reverse function will be executed both in the automatic and in the manual operation.



### NOTICE!

A preset reversing pulse will not be executed after a time triggered control command.

## Info button

Pushing the info button will indicate the current measuring values of the sensors.

The values of the light sensors (light intensity) are indicated in kLux.

The values of the wind meter (wind speed) are indicated in km/h.

When the info button is released, the display switches back to the current operating mode after approx. 10 seconds.

## Plain text display

While the LEDs only provide a short overview over the current status of the automatic mode, the plain text display indicates detailed information. All messages for the selected channel will be indicated alternately.

The display of the control UNI 12 / UNI 12 RC indicates the following messages:

08:00:00  
AUTO

UNI 12 is in the automatic mode. All connected sensors are considered.

08:00:00  
MANUAL

UNI 12 is in the manual mode. Only wind speed threshold value and rain sensor are considered.

The display of the control UNI 22 / UNI 22 RC indicates the following messages:

08:00:00  
AUTO AUTO

UNI 22 is in the automatic mode (channel 1 and channel 2). All connected sensors are considered.

08:00:00  
MANUAL MANUAL

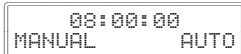
UNI 22 is in the manual mode (channel 1 and channel 2). Only wind speed threshold value and rain sensor are considered.

### Plain text display



08:00:00  
AUTO MANUAL

Channel 1 of UNI 22 is in the automatic mode, channel 2 is in the manual mode. For channel 1, all sensors are considered. For channel 2, only wind speed threshold value and rain sensor are considered.




08:00:00  
MANUAL AUTO

Channel 1 of UNI 22 is in the manual mode, channel 2 is in the automatic mode. For channel 1, wind speed threshold value and rain sensor are considered. For channel 2, all sensors are considered.


### Plain text display

Depending on the sensor values, the following messages are displayed in the automatic operation:



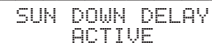
TEMPERATURE  
DELAY ACTIVE

The temperature is below the value set by the room thermostat and the temperature reset delay has not elapsed.




TEMPERATURE  
TOO LOW

The temperature is below the value set by the room thermostat and the temperature reset delay has elapsed.



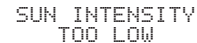
SUN DOWN DELAY  
ACTIVE

The preset sun threshold value is exceeded, the sun response delay has not elapsed.



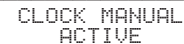
SUN UP DELAY  
ACTIVE

The preset sun threshold value is exceeded, the sun response delay has not elapsed.



SUN INTENSITY  
TOO LOW

The preset sun threshold value is undershot.



CLOCK MANUAL  
ACTIVE

The time control is activated, i.e. no automatic travel commands will be executed until the end of the preset time period.

## Plain text display

The following messages can be displayed both in the manual and in the automatic operation:

RAIN ACTIVE

Rain was detected.

SNOW ACTIVE

Frost was detected.

RAIN / FROST  
DELAY ACTIVE

The rain or frost reset delay has not elapsed.

Consult a professional electrician, if one of the following error messages is displayed:

WINDSENSOR  
BAD CONNECTION !

Sensor connection or wind meter wiring are defect.  
No wind sensor is connected and wind sensor is not deactivated.

TIME-OUT !  
CHECK WINDSENSOR

No wind signal has been detected for 48 hours. Move the wind meter air vanes to check their correct function. Consult a professional electrician, if the message does not disappear or if the same message is indicated after another 48 hours.

LIGHT-SENSOR 1  
DEFECT !

Sensor connection or wiring of light sensor 1 are defect or no sensor is connected.

LIGHT-SENSOR 2  
DEFECT !

Sensor connection or wiring of light sensor 2 are defect or no sensor is connected.

## Notes for professional electricians



### WARNING!

**Risk of injury due to improper installation and commissioning.**

Improper installation and commissioning may lead to personal injury or property damage.

Therefore:

- When connecting the device, observe the currently valid VDE standards (in particular DIN VDE 0100/0700), your local power company's regulations and the current accident prevention regulations.
- Connect the control in accordance with the wiring diagram.

The control is to be connected as follows:

- Switch off the power supply.
- Remove the two screws on the upper part of the control and carefully lift off the upper part.
- Unplug the ribbon cable from the basic PCB.
- Lead the connecting cables in and mount the basic housing to the wall. If the connecting cables are routed behind the wall, use the pre-punched cable glands in the rear panel.
- Connect mains cables and external connections according to the wiring diagram.
- The output is floating contact which is important to trigger decentralized and centralized controls.
- Bridge terminal 2 and 6 with a jumper, if both drives (230VAC, 50 Hz) need to be triggered directly.
- If no light sensor LS 30 is installed with the UNI, a 1k8 resistor must be connected between terminal 21 and 22 and in the basic setting, the number of light sensors must be set to 1 piece.
- Plug the ribbon cable into its socket on the basic PCB and latch upper with lower part of the device.
- Switch on the power supply.

## Notes for professional electricians

Now the LEDs on the front side of the device will be flashing.

- Check all connected sensors for their correct function.
- Check all connected drives for their correct function.
- Carry out all basic settings for the device.
- Latch housing upper with housing lower part and tighten the two screws at the upper side of the housing.

When using UNI12/22 RC, please consider the following notes:

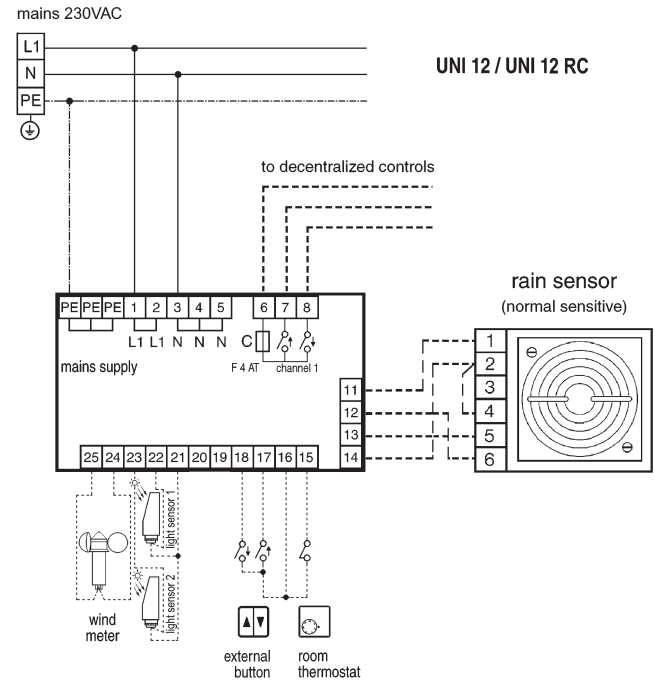


### NOTICE!

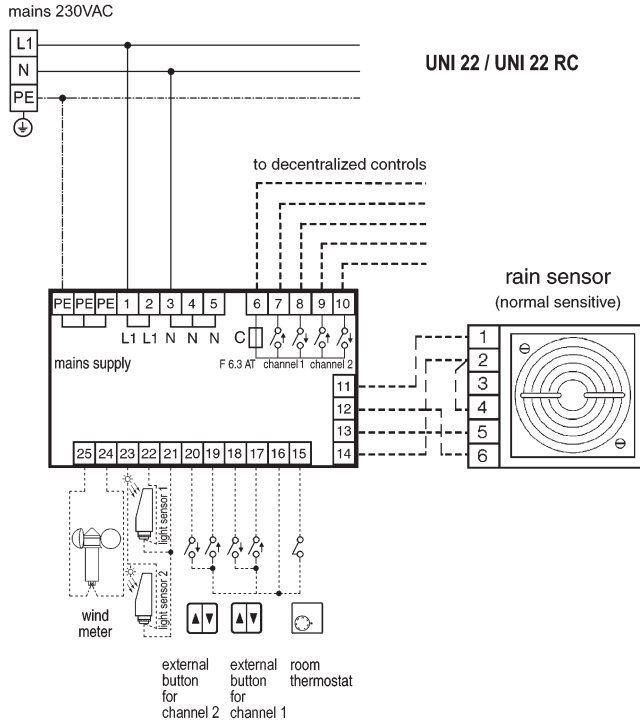
Constructional characteristics of the building such as metallic areas or thick and heavily armored ceilings and walls can reduce the reach of transmitter or receiver of the radio control system. Other devices using the same radio frequency (433,92) can cause cross-interferences. For safety precautions, Vestamatic radio control functions will not be executed unless the device undoubtedly identifies the signals.

In order to achieve maximum reception quality, the above precautions are to be observed. Do not operate two or more radio receivers directly adjacent to each other. We recommend a minimum distance of 50 cm between radio receivers.

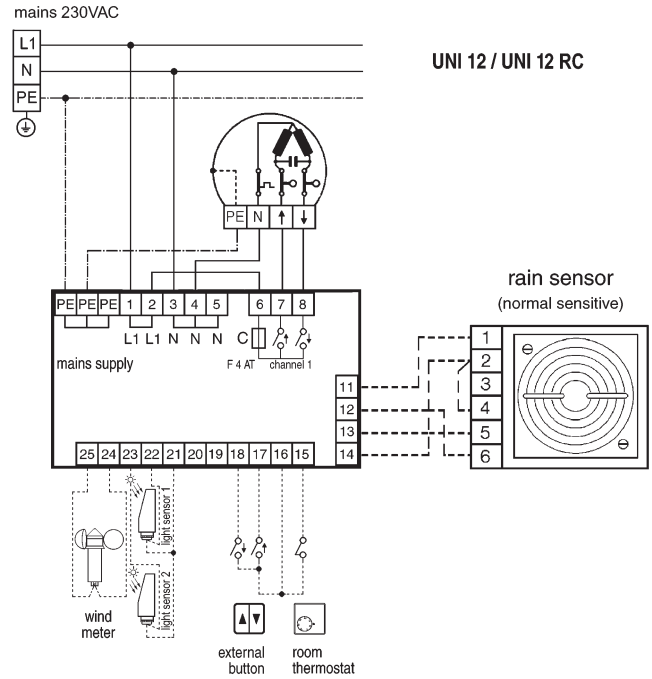
## Wiring diagram to decentralized controls



## Wiring diagram to decentralized controls

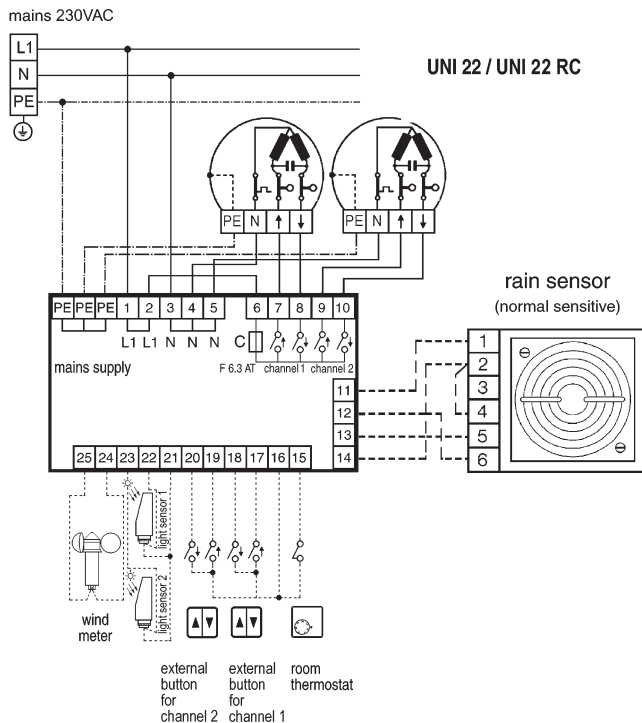


## Wiring diagram with direct motor connection





## Wiring diagram with direct motor connection

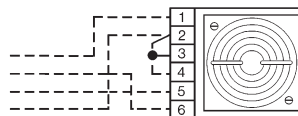


## Setting the rain sensor sensitive

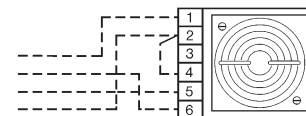
The sensitive can be determined at the terminal wiring of the rain sensor.

You can select from 4 sensitive levels.  
Connect the rain sensor as follows:

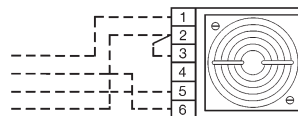
rain sensor low sensitive:



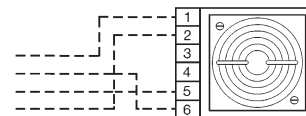
rain sensor normal sensitive:



rain sensor sensitive:



rain sensor high sensitive:



## Basic settings

Open the housing of the control and have the following settings carried out by a professional electrician:

- Loosen the screws on the upper part of the control and carefully take the upper part off.
- Push the button on the rear side of the upper part of the housing to activate the basic settings menu.
- Pushing the button within this menu will save the currently displayed value and indicate the next menu option. With the up and down button, the displayed value can be changed.
- You exit the menu by saving the last menu option or not pushing any button for 20 seconds. In that case, the last value indicated will **not** be saved.

## Basic settings



### ATTENTION!

Parameters set in this menu apply for all channels.

This menu provides the following setting possibilities:

1. Test mode
2. Wind meter
3. Extended wind range
4. Unit of wind speed
5. Wind meter type
6. Wind response delay
7. Number of light sensors
8. Allocating light sensors to channels (only UNI 22 / UNI 22 RC)
9. Locking after 2 seconds
10. Rain priority
11. Continuous up command
12. Continuous down command
13. Channel 2 for roof window (only UNI 22 / UNI 22 RC)
14. Language selection

On the following pages, these functions will be explained in detail.

## Basic settings

1. Test mode: ON / OFF  
Manufacturer's default setting: OFF  
To test the functions of all additionally connected accessories in the test mode, the preset delays are accelerated by factor 5 and the wind meter monitoring (48 hours-alarm) responds after 90 seconds.
2. Wind meter: ON / OFF  
Manufacturer's default setting: ON  
If the wind meter is set to off, the wind LED permanently lights up green. The wind safety function is disabled and menu options 3 – 6 will not be indicated.
3. Extended wind range: ON / OFF  
Manufacturer's default setting: OFF  
This menu option is only available, if the wind meter is activated.  
OFF: The wind speed threshold value can be set between 10 and 40 km/h.  
ON: The wind speed threshold value can be set between 10 and 100 km/h.
4. Unit of the wind speed: km/h / m/s  
Manufacturer's default setting: km/h  
This menu option is only available, if the wind meter is activated.

## Basic settings

5. Wind meter type: WM1 (Standard WS XS Tube)  
WM2 (Special version WS Classic M)  
WM3 (Combined sensor)  
Manufacturer's default setting: WM1  
This menu option is only available, if the wind meter is activated.
6. Wind response delay: 0 – 10 seconds  
Manufacturer's default setting: 0 seconds  
This menu option is only available, if the wind meter is activated. Please note, that the wind speed threshold value must be exceeded for the complete duration of the response delay before the sunshade can retract.
7. Light sensors: 1 / 2  
Manufacturer's default setting UNI 12: 1  
Manufacturer's default setting UNI 22: 2  
Set the number of connected light sensors.
8. Allocation of the sensors: A / B  
Manufacturer's default setting: B  
(only UNI 22 / UNI 22 RC with 2 light sensors)  
A: For both channels, only the highest of the two sun intensity values measured by light sensor 1 applies.  
B: The values measured by light sensor 1 apply for channel 1; The values measured by light sensor 2 apply for channel 2.

### Basic settings

9. Locking after 2 seconds: ON / OFF  
Manufacturer's default setting: OFF  
OFF: After pushing the retract button, the sunshade will be immediately retracted or extended.  
ON: After pushing the retract or extend button for more than 2 seconds, the sunshade will be fully retracted or extended.  
Pushing the retract or extend button for less than 2 seconds will retract or extend the sunshade only for the duration of pushing the button.  
That way, awning cloth and slat angle of the blind can be accurately positioned.
10. Rain priority: ON / OFF  
Manufacturer's default setting: ON  
OFF: The safety functions rain and frost are deactivated in the manual operation.  
ON: The safety functions rain and frost are activated in the manual operation.
11. Continuous up command: ON / OFF  
Manufacturer's default setting: OFF  
OFF: A continuous signal at the up button input triggers an up command at motor run time.  
ON: A continuous signal at the up button input triggers an continuous up command.

### Basic settings

12. Continuous down command: ON / OFF  
Manufacturer's default setting: OFF  
OFF: A continuous signal at the down button input triggers a down command at motor run time.  
ON: A continuous signal at the down button input triggers a continuous down command.
13. Channel 2 for roof window: ON / OFF  
Manufacturer's default setting: OFF  
This menu option is only available for UNI 22 / UNI 22 RC.  
OFF: Normal function for up and down button of channel 2.  
ON: Up and down button for channel 2 are interchanged.
14. Language selection: English / Dutch / German / French  
Manufacturer's default setting: German



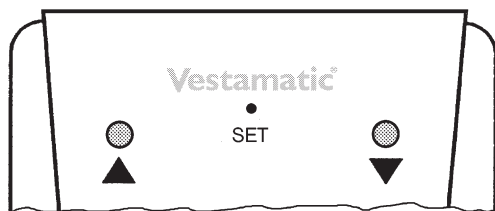
#### NOTICE!

After having finished all tests, deactivate the test mode. Continuous operation of the UNI 12/22 control in the test mode is not permissible.

## SET button

By pushing the SET button (located behind the hole at the front side) with the delivered adjustment tool, the set values can be checked and changed with the up and down buttons.

You can program the control according to your requirements.



Push this button to activate the settings menu. Pushing the button within this menu will save the currently displayed value and indicate the next menu option. You exit the menu by saving the last menu option or not pushing any button for 20 seconds. In both cases, the last indicated value will be saved.

## Adjustable values and times

The following settings can be carried out:

- |   |                      |
|---|----------------------|
| 1. Time:                                | 00:00 – 23:59        |
| Manufacturer's default setting:         | 08:00                |
| 2. Background illumination:             | 0 – 100%             |
| Manufacturer's default setting:         | 50%                  |
| 3. Contrast:                            | 0 – 100%             |
| Manufacturer's default setting:         | 50%                  |
| 4. Time control up:                     | 00:00 – 23:59; --:-- |
| Manufacturer's default setting:         | --:--                |
| 5. Time control down:                   | 00:00 – 23:59; --:-- |
| Manufacturer's default setting:         | --:--                |
| 6. Start time period automatic locking: | 00:00 – 23:59; --:-- |
| Manufacturer's default setting:         | --:--                |
| 7. End time period automatic locking:   | 00:00 – 23:59; --:-- |
| Manufacturer's default setting:         | --:--                |
| 8. Wind speed threshold value:          | 10 – 40 km/h         |
| Extended wind range:                    | 10 – 100 km/h        |
| (see chapter basic settings, page 83)   |                      |
| Manufacturer's default setting:         | 30 km/h              |
| 9. Wind reset delay:                    | 2 – 20 minutes       |
| Manufacturer's default setting:         | 16 minutes           |
| 10. Sun triggered control:              | ON / OFF             |
| Manufacturer's default setting:         | ON                   |

### Adjustable values and times

- |  |  |
|--|--|
| 11. Sun response value, extend:<br>Manufacturer's default setting:   | 1 – 60 kLux<br>15 kLux                     |
| 12. Sun response delay:<br>Manufacturer's default setting:   | 00:10 – 05:00 (min:sec)<br>02:30 (min:sec) |
| 13. Sun response value, retract:<br>Manufacturer's default setting:  | 1 – 60 kLux<br>13 kLux                     |
| 14. Sun reset delay:<br>Manufacturer's default setting:  | 2 – 40 minutes<br>16 minutes               |
| 15. Motor run time:<br>Manufacturer's default setting:   | 1 – 180 seconds<br>90 seconds              |
| 16. Reversing pulse:<br>Manufacturer's default setting:  | 0 – 1.9 seconds<br>0 seconds               |
| 17. Temperature triggered control:<br>Manufacturer's default setting:  | ON / OFF<br>ON                             |
| 18. Temperature reset delay:<br>Manufacturer's default setting:  | 2 – 15 minutes<br>5 minutes                |
| 19. Rain reset delay:<br>Manufacturer's default setting:   | 1 – 10 minutes<br>2 minutes                |
| 20. Programming hand-held transmitter<br>(only UNI 12 RC / UNI 22 RC)<br>Please read the chapter programming the radio transmitter for more information. |  |

### Adjustable values and times



#### NOTICES!

- If the sun triggered control (menu option 10) is deactivated, menu options 11 to 14 will not be indicated.
- If the temperature triggered control (menu option 17) is deactivated, menu option 18 will not be indicated.
- If you have purchased a UNI 22 control, make sure to carry out all settings separately for channel 1 and 2, except time, background illumination and contrast. The values that are indicated and changed in the settings menu apply only for the activated channel.

If no button is pushed for 20 seconds, the display switches back to the preset operating mode. The last indicated value will be saved.

In case of a power failure, all programmed parameters remain stored, the internal clock will be buffered for 24 hours.

## Programming the radio transmitter UNI 12/22 RC

The UNI 12/22 RC controls can be conveniently radio controlled with the optional hand-held radio transmitter.

Before start up, allocate the radio transmitter to the control UNI 12/22 RC as follows:

### Programming the radio transmitter

Push the SET button repeatedly on the front of the control until the plain text display indicates:



RC CONTROL PRESS  
UP, DOWN OR BOTH

Push the up button on the control and keep it pushed. The LED retract will slowly flash and the display will indicate:



RC CONTROL PRESS  
RC-KEY to LEARN

Now also push the button on the the radio transmitter to be programmed. If the programming was successful, the LED retract will flash at a high frequency.

Release both the button on the radio transmitter and the up button on the UNI 12/22 RC control until the LED retract goes off.

Repeat this process for each button of the radio transmitter to be programmed.

## Programming the radio transmitter UNI 12/22 RC

### Deleting the programming of one radio transmitter

Push the SET button repeatedly on the front of the control until the plain text display indicates:



RC CONTROL PRESS  
UP, DOWN OR BOTH

Push the down button on the control and keep it pushed. The LED retract will slowly flash and the display will indicate:



RC CONTROL PRESS  
RC-KEY to DELETE

Now also push the button on the radio transmitter whose programming is to be deleted. If the programming was successful, the LED retract will flash at a high frequency.

Release both the button on the radio transmitter and the down button on the UNI 12/22 RC control until the LED retract goes off.

Repeat this process for each button of the radio transmitter whose programming is to be deleted.

## Programming the radio transmitter UNI 12/22 RC

### Deleting the programming of all radio transmitters

Push the SET button repeatedly on the front of the control until the plain text display indicates:



RC CONTROL PRESS  
UP, DOWN OR BOTH

Push the up and down button on the control and keep it pushed. The display will indicate:



RC CONTROL PRESS  
3 SEC=DELETE ALL

After 3 seconds, the LED retract will flash at a high frequency. Release the buttons on the UNI 12/22 RC control until the LED retract goes off. Now all programmed radio transmitters are deleted.

## Technical data

Power supply:	230VAC, 50 Hz
Impulse voltage withstand level:	2.5 kV
Rated power:	6 W
Fuses:	0.05 A/T (control)
UNI 22	6.3 A/T (motor)
UNI 12	4 A/T (motor)
Output:	floating contact
Maximum load:	250VAC, 50 Hz, 4 A, $\cos \varphi \cong 0.8$ ind. 30VDC, 5A (UNI 22), 4 A (UNI 12)
Align switching time:	3 – 180 seconds
The total operating power of the connected motor must not exceed 920 W (UNI 12) and 1400 W (UNI 22).	
Software class:	A
Operating temperature:	0°C (32°F) to +40°C (104°F)
IP class:	IP30
Degree of contamination:	2
Dimensions (L × W × H):	184 × 100 × 56 mm
Colour information:	signal white (similar to RAL 9016)

### UNI 12 RC / UNI 22 RC

Transmitter frequency:	433.92 MHz
Transmitter battery:	12 V, type 23A, 23L, EL 12, VR22, MN21

All technical data is subject to change.



**The disposal of electrical equipment and batteries in household waste is strictly forbidden.**

The symbol (dustbin crossed out, in line with WEEE Appendix IV) indicates separate collection of electrical and electronic products in EU countries. Do not dispose of the device or battery in your household waste. Ask your town or local council about the return and collection systems available in your area to dispose of this product.