



INSTALLATION AND OPERATING INSTRUCTIONS WISO QUATTRO

WISO QUATTRO



This manual is suitable for the following products:

- WISO Quattro (01816400)
- WISO Quattro Nero (01816403)

Documentnumber: 85700601 F1

Control for manual or automatic control of awnings, blinds or skylights



Time Receiver



In-wall controllers



Read the manual before starting the installation.
Failure to follow the instructions may result in defects that are not covered by the warranty. Errors and technical changes excepted.



INHALT

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SAFETY INSTRUCTIONS

GENERAL SAFETY INFORMATION

These safety instructions are an integral part of the product and must be read and understood completely before installation, electrical connection, commissioning and operation.

- Installation, electrical connection and commissioning may only be carried out by a qualified electrician.
- All applicable laws, standards and regulations must be observed, in particular DIN VDE 0100/0700, local utility regulations and accident prevention regulations.
- The control unit must be checked for damage before installation. If damage is detected, the device must not be put into operation.
- Any modification or alteration of the device is prohibited and will result in the loss of warranty and liability claims.
- The operator is responsible for ensuring that these safety instructions are made available to all subsequent users.

INTENDED USE | CONTROL OF SUITABLE DRIVES FOR:

	Shutters		Awnings		Pleated Blinds
	Internal Roller Blinds		External Venetian Blinds		Plafond Blinds
	Screens		Internal Venetian Blinds		Roman Blinds

CRITICAL SAFETY WARNINGS



ELECTRICAL HAZARDS

DANGER – Risk of fatal electric shock.

Disconnect the mains voltage completely before installation and before working on the device.



HAZARDS DUE TO SENSOR MALFUNCTIONS | WARNING

– Risk of uncontrolled movements caused by sensor failure.



HAZARDS DUE TO MOVING SHADING SYSTEMS | WARNING

Risk of injury due to crushing, shear points or uncontrolled movement.



NOTE

The complete safety instructions can be found at: www.vestamatic.com/safety



SCAN ME

SUPPORT/CONTACT

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 Am Tannenbaum 2 | 41066 Mönchengladbach
 E-Mail: info@vestamatic.com

TECHNICAL DATA

SHORT DESCRIPTION

- The control is used for the manual and automatic control of awnings, blinds or skylights.
- The control has a wide range of program options and is produced according to high quality standards.
Please read the manual carefully before starting up the device.



NOTE

Slightly touching the display turns on its illumination, which will turn off automatically 20 seconds after the last operation. Every function key operation is confirmed by a short acknowledgment beep.

PARAMETER	VALUE
Power supply	230VAC, 50 Hz
Impulse voltage withstand level	2,5 kV
Rated power	2 W
Output (retract/extend)	230VAC, 50 Hz
Maximum load	250VAC, 3A cos $\varphi \geq 0,8$ ind.
Align switching time down	3 – 180 seconds
Tilt time	0-30 seconds
Software class	A
Operating temperature	0 °C (32 °F) to +40 °C (104 °F)
IP class	IP30
Degree of contamination	2
Battery	CR 2032
Dimensions (L × B × H)	50 × 50 × 46 mm (without cover frame)
Colour information	signal white (similar to RAL 9016)
Colour information Nero	anthracite (similar to RAL 9011)
Conformity	

INSTALLATION / WIRING DIAGRAM

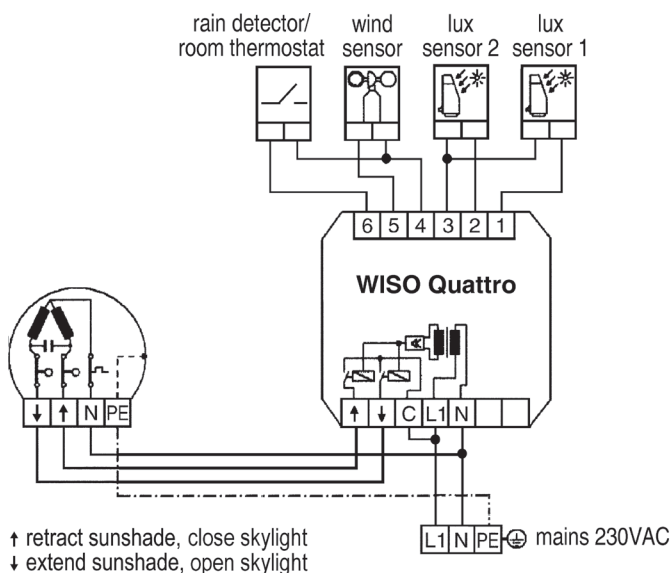
NOTES FOR PROFESSIONAL ELECTRICIANS

- 1. Switch off the power supply.
- 2. Connect the power supply and sensors in accordance with the wiring diagram.
Make sure that the mains cables do not cross or touch the sensor cables.
- 3. Fit the power supply into a deep flush box and fix in place.
- 4. Fit the frame cover.
- 5. Fit the operating device into the power supply by applying gentle pressure to the frame cover.
- 6. Switch on the power supply.
- 7. Check the sunshade or skylight direction by using the "Retract" and "Extend" buttons.

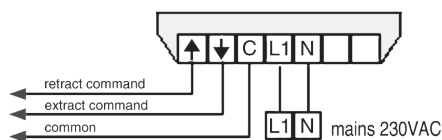


WARNING

Parallel control of more than one conventional drive motor can only be implemented by means of isolating relays and group control devices.



ANSCHLUSS DEZENTRALE STEUERUNGSSYSTEME



When controlling decentralised controls such as MC P2 or MC P4, for example



NOTE

When using decentralised control systems, the wire bridge (C-L1) must be removed.

INSTALLATION / WIRING DIAGRAM

INITIAL COMMISSIONING

- The controller is ready for operation immediately after installation and switching on the supply voltage and starts in manual mode.
- The temperature function is disabled; however, the shading system can still be operated using the UP and DOWN buttons.
- The current time, date and further basic settings are preset at the factory (see table "Factory settings") and may only need to be adjusted to suit individual requirements.

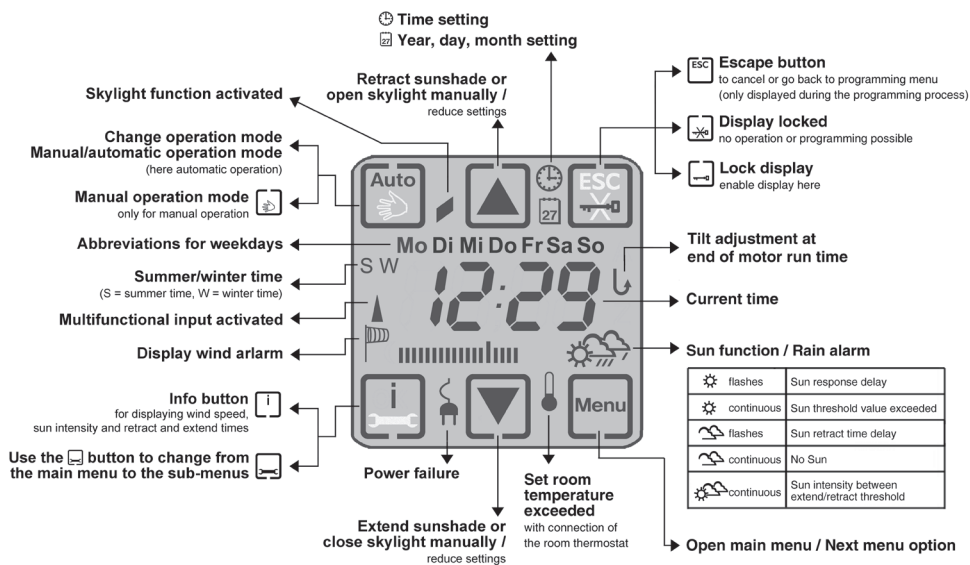


NOTE

If the device is enabled without a wind sensor being connected, a wire bridge must be fitted between power supply terminals 4 and 5 and, on activation, the wire bridge must be set in menu item H 5 (see H 5 Wind function section).

SETTINGS / PROGRAMMING

DISPLAY ELEMENTS



SETTINGS / PROGRAMMING

Werkseitige Einstellungen




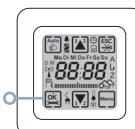
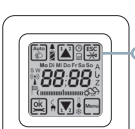
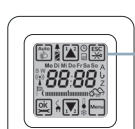


Main menu	Sub-menu	Function	Manufacturer's default setting	Adjustment option
H1		Time-controlled retract command	OFF	00:00 – 23:59; OFF
H2		Time-controlled extend command	OFF	00:00 – 23:59; OFF
H3		Automatic lock	OFF	ON / OFF
	U 3.1	Start automatic lock	9:00	00:00 – 23:59
	U 3.2	End automatic lock	16:00	00:00 – 23:59
H4		Sun function	ON	ON / OFF
	U 4.1	Threshold setting (extension)	15 kLux	5 – 40 kLux
	U 4.2	Extend time delay (extension)	20 min.	00:10 – 05:00 min.
	U 4.3	Threshold setting (retraction)	10 kLux	3 – 38 kLux
	U 4.4	Retract time delay (retraction)	16 min.	02:00 – 40:00 min.
H5		Wind function	28 km/h	10 – 60 km/h
	U 5.1	Reset delay wind alarm	16 min.	2 – 20 min.
	U 5.2	Wind sensor type	CO 1	CO 1 – CO 3
H6		Motor run time / IDS function	180 sec.	IDS; 3 – 180 sec.
	U 6.1	Tilt time	0.0 sec.	0.0 – 30 sec.
	U 6.2	Inching mode	OFF	ON / OFF
H7		Multifunctional input	OFF	ON / OFF
	U 7.1	Function selection for multifunctional input	FA 1	FA 1 – FA 4
	U 7.2	Multifunctional input reset time delay	5 min.	02:00 – 15:00 min.
H8		Skylight function	OFF	ON / OFF
H9		Time / Date	current	00:00 – 23:59
	U 9.1	Year	current	2004 – 2099
	U 9.2	Date	current	01.01 – 31.12
	U 9.3	Automatic summer/winter time change	ON	ON / OFF
	U 9.4	Manual summer/winter change	W	S / W

BASIC SETTINGS / MAIN MENU / SUBMENU


The control system features a wide range of functions which can be set to meet your individual requirements.

SETTINGS / PROGRAMMING

BASIC SETTINGS / MAIN MENU / SUBMENU

<p>Go to main menu</p> 	<p>Menu x 3S</p> <p>Select another main menu item</p> 	<p>Menu x 1(+)</p> <p>Go to sub menu</p> 
<p>Sub menu x 1(+)</p> <p>Select another sub menu item</p> 	<p>Sub menu x 1(+)</p> <p>Step back within the menu / sub-menu</p> 	<p>Escape x 1(+)</p> <p>Escape x 5S</p> <p>Exit programming / automatic saving</p> 
<p>Arrow keys x 1(+)</p> <p>Adjust values within a menu</p> 	<p>Arrow keys x 1(+)</p> <p>Or</p> <p>Adjust values within menus using fast scroll</p> 	<p>Arrow keys x 2S</p>

i NOTE

- If there are sub-menus to a main menu, the  button appears in the display.
- Main menu items are displayed with an H and the **MAIN MENU NUMBER** (e.g. H5). Sub menu items are displayed with an U, followed **BY THE MAIN MENU NUMBER AND THE SUB-MENU NUMBER** (e.g. U5.1).
- The menu is left after the menu item H9 by pressing „Menu“ button again.

H1	Time-controlled retract command	H6	Motor run time / IDS function
H2	Time-controlled extend command	H7	Multifunctional input
H3	Automatic lock	H8	H 8 Skylight function
H4	Sun function	H9	Time / Date
H5	Wind function		

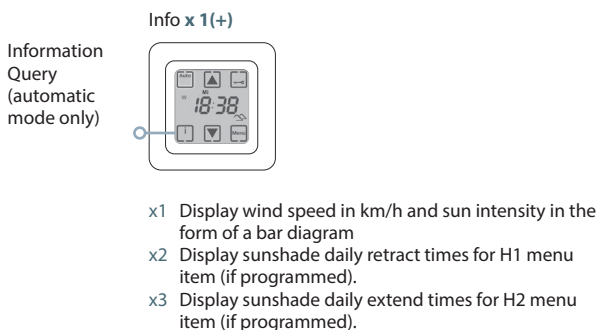
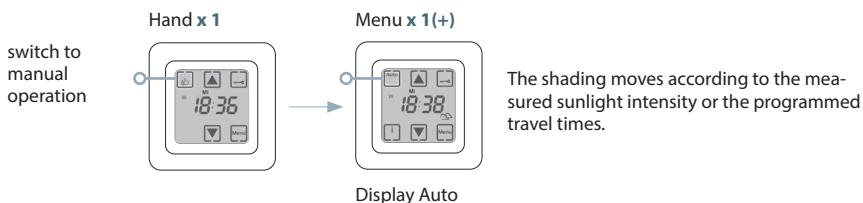
i NOTE

If in programming menu no buttons is pressed for longer than 180 sec., the programming menu is automatically quit.

SETTINGS / PROGRAMMING

BASIC SETTINGS / MAIN MENU / SUBMENU

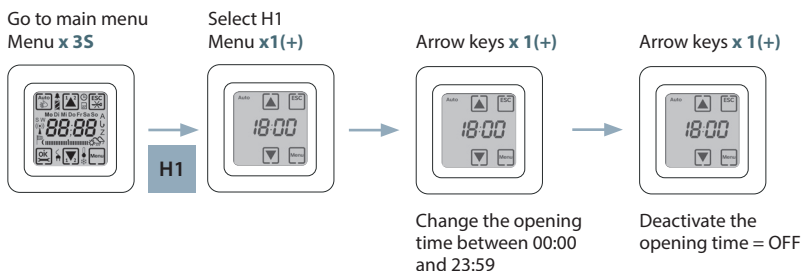
- In manual operation mode, all automatic functions are disabled. Only the wind function or an activated multifunctional input FA 3 will remain active and will be monitored
- You can operate the sunshade using the arrow key buttons.
- To interrupt the sunshade's or skylight's movement, press the opposite button.



WICHTIG

A flashing Auto symbol indicates that the automatic lock is active. For more detailed information, see section: Programming details – menu option H3.

H1 TIME-CONTROLLED RETRACT COMMAND



SETTINGS / PROGRAMMING

H2 TIME-CONTROLLED EXTEND COMMAND

Go to main menu
Menu x 3S



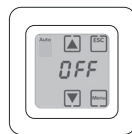
Select H2
Menu x1(+)



Arrow keys x 1(+)



Arrow keys x 1(+)



Adjust the extended
time between 00:00
and 23:59

Deactivation = OFF



NOTE

There will be no time-controlled extension if the wind alarm is on, or if multifunctional inputs FA 3 or FA 4 are active.

H3 AUTOMATIC LOCK

This menu item enables you to programme a period of time during which automatic operation mode is disabled. This means that no automatic retract or extend commands (triggered by the sun or the temperature).

Go to main menu
Menu x 3S



Select H3
Menu x1(+)



Arrow keys x 1(+)



OFF – Submenu items are not
displayed

Deactivation = OFF
Activation = ON



NOTE

The wind function and the FA 3 or FA 4 multifunctional inputs will not be influenced by the automatic lock. If the automatic lock is enabled, Auto will flash in the display.

H3 START AUTOMATIC LOCK

Sub menu x 1
H3.1



Arrow keys x 1(+)



Set the time for the start of the
automatic lock

H3 END AUTOMATIC LOCK

Sub menu x 1
H3.2



Arrow keys x 1(+)



Set the time for the end of the
automatic lock

SETTINGS / PROGRAMMING

H4 SUN FUNCTION

Go to main menu
Menu x 35



Select H4
Menu x 1(+)



Arrow keys x 1(+)



OFF = Submenu items U4.1
and U4.4 are not displayed

Deactivation = OFF
Activation = ON



NOTE

If the word "ON" flashes on the screen, automatic operation mode will be enabled by the room thermostat only, as FA 2 multifunctional input has been enabled (see U 7.1 function selection FA 2). The sun/cloud symbol will not be displayed in automatic operation mode.

H4 THRESHOLD SETTING (EXTENSION)

This menu item enables you to set the threshold value (in kLux) for extending the sunshade or opening the skylight.

Sub menu x 1
H4.1



Arrow keys x 1(+)



Display of the measured sunlight intensity as a bar graph. If the bar exceeds the centre line, the threshold value is reached. After this, the extended delay is started.

Setting of the threshold value

H4 EXTEND TIME DELAY (EXTENSION)

The extend time delay ensures that the sunshade will not immediately extend or that the skylight will not immediately open if the sun threshold value is exceeded.

Sub menu x 1
H4.2



Arrow keys x 1(+)



Setting of the response delay in
minutes : seconds

SETTINGS / PROGRAMMING

H4 THRESHOLD SETTING (RETRACTION)

This menu item enables you to set the threshold value (in kLux) for retracting the sunshade or closing the skylight.

Sub menu **x 1**

H4.3

Arrow keys **x 1(+)**



The measured sun intensity will be displayed in the form of a bar diagram. Once the bars fall below the central line, which indicates the preset threshold in kLux, the sunshade will only retract after the retract time delay has expired.

Setting of the threshold value

H4 RETRACT TIME DELAY (RETRACTION)

The retract time delay ensures that the sunshade will not immediately retract or that the skylight will not immediately close if the value falls below the sun threshold value (e.g. during brief cloudy spells).

Sub menu **x 1**

H4.4

Arrow keys **x 1(+)**



Setting of the response delay in minutes : seconds

H5 WIND FUNCTION

If the measured wind speed exceeds the set threshold value, the sunshade will retract immediately.

The wind threshold setting (km/h) depends on the sunshade's or skylight's size and design.

Go to main menu

Menu **x 3S**

Select H5

Menu **x1(+)**

Arrow keys **x 1(+)**



H5



Display wind sensor: if the wind sensor gives the necessary signals while turning, the bars will fill once from left to right, indicating that the wind sensor is operating correctly

Setting of the wind threshold



If a wind sensor is not connected to the control system, set the wind threshold value to the "wirebridge" symbol (see fig. 2). This symbol will be displayed if the maximum programmable wind speed of 60 km/h is reached. In this case, a wire bridge must also be fitted between wind sensor terminals 4 and 5.



NOTE

A renewed extension of the shading is only possible after the retracted response delay has elapsed.

SETTINGS / PROGRAMMING

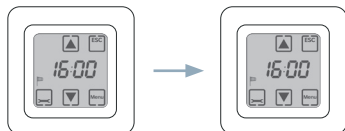
H5 RESET DELAY WIND ALARM

The reset delay for the wind alarm enables you to programme a reset time in minutes so that the sunshade will not extend immediately after a wind alarm.

Sub menu x 1

H5.1

Arrow keys x 1(+)



Setting of the reset delay in minutes

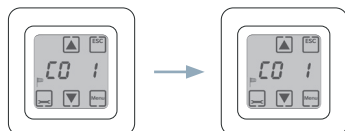
H5 WIND SENSOR TYPE

This sub-menu option allows you to set the type of wind sensor being used.

Sub menu x 1

H5.2

Arrow keys x 1(+)

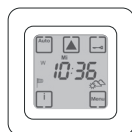


Setting of the connected wind sensor type.

CO 1 =	WS XS	Artikel-no.: 01100310
	WS XS Alu	Artikel-no.: 01100410
	WISO Crystal Station	Artikel-no.: 01100330
CO 2 =	WS Classic M	Artikel-no.: 01100235
CO 3 =	Reserve setting	

DISPLAY OF WIND FUNCTION/WIND ALARM ON THE SCREEN.

If the measured wind speed exceeds the set threshold value, the sun shade will retract immediately.



- The display shows the flashing retract arrow and the wind symbol will be displayed and the extend button for the time of the wind alarm goes off.
- If the wind symbol illuminates permanently, then the wind speed limit is exceeded and the wind symbol flashes, then the measured wind speed is below the set limit and the reset delay starts to run.
- After an elapsed wind reset delay the shading / skylights is controlled in automatic mode again using the measured sensor data, in manual mode, the shading / skylight can be controlled in the desired position using the buttons o or u.

SETTINGS / PROGRAMMING

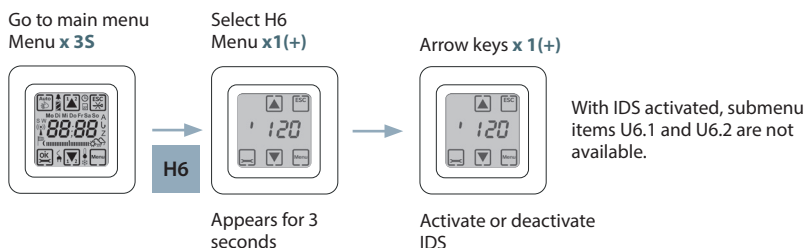
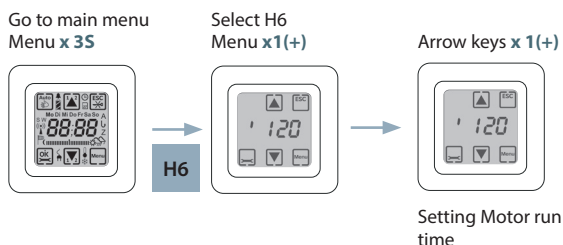
H6 MOTOR RUN TIME / IDS FUNCTION

The IDS (Intelligent Decentralised Sunshade control) feature is used to differentiate between sun-dependent, time-dependent, manual and safety-related central controls without any additional installation work required. For example, you can mask the sun-dependent extend/retract commands while the remaining central commands (such as safety-related or time-dependent commands) continue to operate.



NOTE

Operating mode IDS may only be used with decentralized Vestamatic® controls with IDS functionality.



H6 TILT TIME

Tilt time setting depends on the sunshade's size and design. Once the motor run time has expired, the sun shade will briefly retract, enabling the slats to be positioned to the correct angle. The tilt function is performed in both automatic and manual operation.

Sub menu **x 1**
H6.1

Arrow keys **x 1(+)**



If the extend button is pressed while the sunshade is extending (or the skylight open button is pressed while the skylight is opening) the tilt movement will not be performed once the sunshade has extended.

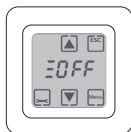
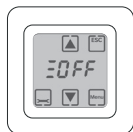
Setting the tilt time in seconds

SETTINGS / PROGRAMMING

H6 INCHING MODE

Sub menu x 1
H6.2

Arrow keys x 1(+)



Jog mode can be enabled for movements of up to 2 seconds.

Enable or disable jog mode.



NOTE

If the set tilt time flashes, this indicates that the set tilt time is longer than the motor run time.

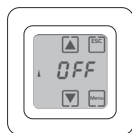
H7 MULTIFUNCTIONAL INPUT

You can connect a commercially available room thermostat (Article-no. 01100271) (break contact) or rain detector (Article-no. 01083520) to the multifunctional input using clamps 4 and 6 of the power supply.

Go to main menu
Menu x 35

Select H7
Menu x1(+)

Arrow keys x 1(+)



If set to OFF, the sub menu items U7.1 and U7.2 cannot be selected.

Enable or disable the multifunction input.

H7 FUNCTION SELECTION FOR MULTIFUNCTIONAL INPUT

You can choose between four different functions.

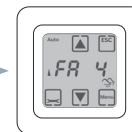
Sub menu x 1
H7.1

Arrow keys x 1(+)

Arrow keys x 1(+)

Arrow keys x 1(+)

Arrow keys x 1(+)



Setting function:
FA 1

Setting function:
FA 2

Setting function:
FA 3

Setting function:
FA 4

FA 1 | ROOM THERMOSTAT PLUS LUX SENSOR

- The shading is extended only after the room temperature and the configured sunlight threshold have been exceeded.
- If the label FA 1 flashes in the display, the sun function must additionally be activated in the main menu H4 (H4 = ON).

FA 2 | ROOM THERMOSTAT

- The shading is retracted or the skylight is opened depending on the room temperature.

SETTINGS / PROGRAMMING

H7 FUNCTION SELECTION FOR MULTIFUNCTIONAL INPUT

You can choose between four different functions.

FA 3 | RAIN SENSOR

- An additional retract or extend command is triggered in automatic and manual operation when rain is detected by the sensor.

FA 4 | RAIN SENSOR (AUTOMATIC OPERATION)

- An additional retract command is triggered only in automatic mode when rain is detected by the sensor.
- In manual operation, manual control of the shading or skylight remains possible.

DISPLAY OF THE ACTIVE MULTIFUNCTIONAL INPUT ON THE SCREEN.

- If the multifunction input is activated, the corresponding symbol appears at the bottom right of the display.
- If the relevant symbol flashes, the multi-functional input will no longer be enabled and the retract time delay will run. When the retract time delay has expired, the symbol will disappear.



FA 1 activ



FA 2 activ



FA 3/4 activ

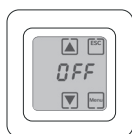
H8 SKYLIGHT FUNCTION

Go to main menu
Menu x 3S

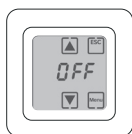


H8

Select H8
Menu x1(+)



Arrow keys x 1(+)



- OFF: ☀ = Retraction of sunshade
 ☂ = Extension of sunshade
 ON: ☀ = Open skylight
 ☂ = Close skylight

Operation buttons
will be changed on
the display.

H9 TIME / DATE

Go to main menu
Menu x 3S



H9

Select H9
Menu x1(+)



Arrow keys x 1(+)



Setting the current time

SETTINGS / PROGRAMMING

H9 YEAR

Sub menu x 1
H9.1



Arrow keys x 1(+)



Setting the current year.
Adjustable range: 2004–2099

H9 DATE

Sub menu x 1
H9.2



Arrow keys x 1(+)



Setting the current date. The month is automatically adjusted together with the day.

H9 AUTOMATIC SUMMER/WINTER TIME CHANGE

Sub menu x 1
H9.3



Arrow keys x 1(+)



Setting automatic daylight saving time changeover.
ON = active

H9 MANUAL SUMMER/WINTER TIME CHANGE

Displayed only if H9.3 is set to OFF

Sub menu x 1
H9.4

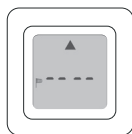


Arrow keys x 1(+)



Manual setting of daylight saving time / standard time. The display shows a flashing S/W indicator.

DISPLAY OF WARNING SIGNALS ON THE SCREEN



WIND SENSOR CABLE RUPTURE

- If the wind sensor connection cable is damaged, this fault will be indicated on the display by a flashing wind symbol, retract arrow and two middle segments.
- The sunshade will retract immediately and will be secured in the retracted position until the fault is repaired.



WIND SENSOR SIGNAL MONITORING

- If the externally fitted wind sensor does not send a signal for a period of 48 hours, the wind symbol will flash, the time will be masked and, in its place, the warning "48 h" symbol will be displayed. This warns you that you need to check the wind sensor. In this case, test that the wind vanes are turning smoothly by pushing them by hand.
- If, after this test, the display does not change, you cannot be guaranteed safe use of the sunshade. The warning symbol can be cancelled by pressing the OK button, but after one hour it will be displayed again. We recommend that you turn off the control system and ensure that it cannot be operated unintentionally.

SETTINGS / PROGRAMMING

LOCKING OUT THE DISPLAY

display lock x 3s



Enabling/disabling the display lock

REPLACING THE BATTERY / RESET

POWER FAILURE

In the event of a power failure, all previously programmed times and settings will be stored for up to 2 years.

- At the start of the power failure, the display will flash for the first 10 minutes. After that, the screen will go blank.
- When the power supply returns, the control system will automatically display the current time
- If a retract or extend command is pending during the power failure, this command will be automatically performed once the power returns.

BATTERIEWECHSEL / RESET

If the controller no longer displays the correct time and/or date after a power failure, the battery most likely needs to be replaced.

- All programming performed by the user, as well as the time and date, will be deleted and the factory default settings will be restored.
- Remove the control unit from the power supply module.
- A CR 2032 battery is located on the rear side of the control unit.
- Remove the battery and insert a new battery of the same type (observe correct polarity).
- Press the reset button as described on the front side of the unit.
- Refit the cover onto the control unit and insert the unit back into the power supply module.

WARRANTY/MAINTENANCE

Principally, the General Terms and Conditions of the manufacturer, Vestamatic International GmbH apply. The terms and conditions are part of the sales documents and handed over to the operator upon delivery. Liability claims for personal or material damages are excluded when they can be attributed to one or more of the following causes:

- Unintended use of the product.
- Opening of the product by the customer.
- Improper installation, commissioning, or operation of the product.
- Non-compliance with the specifications.
- Non-observance of the safety provisions and instructions of the Operating Instructions.
- Operation of the product with improperly installed connections, defective safety devices or improperly installed safeguards.
- Modifications to the product.



MAINTENANCE

The motor is maintenance-free.