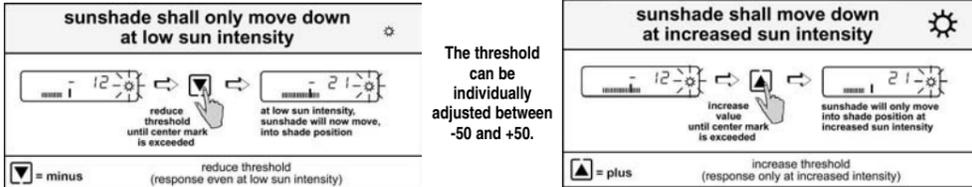


## 10.5 Sun function

With the sun function activated, the lux/twilight sensor, which is attached to the window, continuously checks the sun intensity. As soon as an individually selected sun threshold is attained, and the sun response delay has elapsed, the timer triggers the drive to move down the sunshade. The sunshade then moves down to the sensor and backs up a bit again. If the sunshade does not move down at those lighting conditions, you perceive as correct, you can easily adjust the sun intensity threshold. The sun intensity is displayed by means of a bar graph indicator. As soon as the bar undershoots the mark in the center and the response delay has elapsed, the closed sunshade will move up again. If the bar does not reach the mark in the center, the closed sunshade will move up again after the response delay has elapsed.

### Threshold setting



The threshold can be individually adjusted between -50 and +50.

### NOTE!

The sun function only operates in the automatic mode and only between the programmed up and down times. After the evening down command, the sun function is automatically disabled because the sunshade is closed. The display will indicate the moon symbol. In the automatic mode, the current sun intensity can always be indicated by touching the Info button [i] and displaying the bar graph indicator.

### Response and reset delay (for the sun function)

Response and reset delay are necessary in order to prevent the sunshade from continuously moving up and down at quickly changing lighting conditions. After the sun threshold has been exceeded, the response delay will delay the downwards motion of the sunshade. The reset delay prevents the sunshade from immediately moving up after the sun threshold is undershot, e.g. due to temporary clouds.

## 10.6 1st Motor run time

The default 1st motor run time is set to 120 seconds by the manufacturer. This ensures, that the sunshade can be completely opened and closed. Note: Make sure to always set the motor run time longer than the actual run time of the sunshade. If the timer is used in combination with control units requiring a short-duration pulse, the motor run time is to be set to 3 seconds.

### 1st Reverse function

Enter a time in seconds for the reverse function. After moving all the way down, the sunshade will then move back up for those seconds you have entered and thus allows a gap position (for approx. 3 seconds or a partially open position for approx. 30 seconds by roller shutters resp. by setting of angle of venetian blinds). The sunshade will only move back up, when the preset motor run time has elapsed, thus no later than 120 seconds. Reverse function = 0.0 indicates no reverse function.

### NOTE!

The reverse function must be set separately for the week program in the submenu and the day program in the main menu.

### Inching mode for venetian blinds operation

When this function is enabled, the device can be controlled by pressing the button for a given time (2 seconds max.). To obtain the set duration, press the button for more than 2 seconds.

### 2nd Motor run time and 2nd Reverse function/Reverse time

For detailed explanation of setting the 2nd motor run time and 2nd reverse function/reverse time please see chapter 10.1.

## 10.7 Time / Date

The time, year and date settings are set by pressing the [▲] and [▼] buttons. Press the [□] button to go to the respective setting.

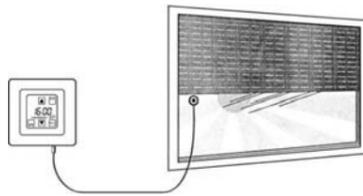
### Automatic and manual daylight saving time

"ON" setting = the control automatically performs daylight saving time adjustment twice a year.

"OFF" setting = daylight saving time adjustment is disabled and can be manually set in the next sub-menu (press [□] button) by pressing the [▲] and [▼] buttons.

## 11. Installation of lux and twilight sensors

- Carefully pull out the display.
- Insert the plug of the lux/twilight sensor into the socket on the rear of the panel.
- Carefully push the display back into the cover frame.
- Attach the lux/twilight sensor at the desired location on the window pane.
- Activate the sun function in the menu and switch the control to the automatic mode.



## 12. Locking out the display

By touching the lock-out button [□] for 3 seconds, the display can be locked out for cleaning purposes. Touch the lock-out button for 3 seconds again, in order to unlock the display.

## 13. Maintenance and cleaning of the touchscreen display

Please note, that the touchscreen display is a sensitive electronic device. The slightest touch on its surface will initiate a switching operation. Excessive pressing, scratching or operation with a sharp-edged object can cause irreparable damage or even destroy the display. Therefore, you should absolutely avoid touching the display surface with a pointed or sharp-edged object. Use a lens cleaning cloth to clean the touchscreen.

## 14. Power failure / Replacing the Battery / Restoring the control system's default settings

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. To replace the battery or restoring the control system's default settings, remove the operating device from the power pack and remove the battery from the back of the operating device. After replacing the battery, an automatic reset will be executed. This will reset the control system and restore the default settings. Everything you have programmed yourself (incl. time and date) will be deleted.

### 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.

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## Quattro



Art.-no.:  
01813400  
01813200  
01813110

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## 1. General

The control is used for the manual and automatic control of electrically driven roller shutters and venetian blinds. 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.

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.

## 2. Safety precautions

- Contact a professional electrician to install the control system, because the control system requires a power supply of 230VAC, 50 Hz.
- 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 or the connected sunshade 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.
- This device contains a pollutant battery. The end user must recycle all used batteries in accordance with regulation 91/157/EWG. Disposing of the batteries in household waste is strictly forbidden.

## 3. Technical data

Power supply:	230VAC, 50 Hz
Impulse voltage withstand level:	2.5 kV
Rated power:	2 W
Output (Up/Down):	230VAC, 50 Hz
Maximum load:	250VAC, 3A, cos φ ≥ 0.8 ind.
Align switching time down:	3 – 120 seconds
Reverse time:	0 – 30 seconds
Software class:	A
Operating temperature:	0°C (32°F) to +40°C (104°F)
Protection degree:	IP 30
Degree of contamination:	2
Battery:	CR 2032
Dimensions (L x W x H):	50 x 50 x 46 mm (without cover frame)
Colour information:	signal white (similar to RAL 9016)
Colour information Nero:	anthracite (similar to RAL 9011)
Conformity:	CE

Quattro  
Quattro ZE  
Quattro Nero

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Shutter control for manual or automatic control of electric shutters or blind controls.

## Installation and Operating Instructions

## 4. Installation



**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.

### Notes for professional electricians

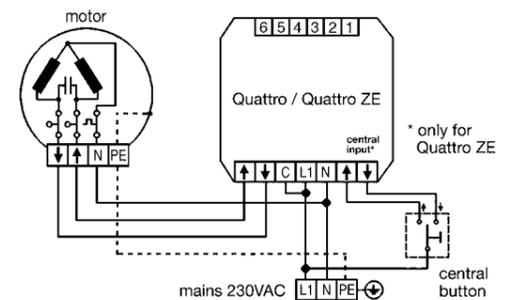
- Switch off the power supply.
- Connect the power supply in accordance with the wiring diagram.
- Fit the power supply into a deep flush box and fix in place.
- Fit the frame cover.
- Fit the operating device into the power pack by applying gentle pressure to the frame cover.
- Switch on the power supply.
- Check the sunshade direction by using the "Up" and "Down" buttons.

## 5. Wiring diagram



**WARNING!**  
The installation regulations in compliance with VDE 0100 must be observed.

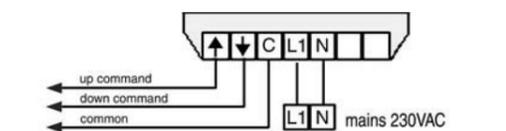
When controlling multiple drives, isolating relays or suitable control units must be used.



**\* Note concerning the central input!**  
Connection to a central input is **only** provided for Quattro ZE. While an up/down command is applied at the central button, the timer cannot issue any stop and/or opposite commands via the Quattro ZE timer. The central input can be operated both in the manual and automatic mode.



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



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

## 6. Start-up

After installing the control and turning on the supply voltage, the control is in manual mode and ready for operation. The temperature function is still disabled but the sunshade can be operated manually with the up/down button. The Quattro ZE can also be operated via the central input. The current time, the date and additional default settings are programmed by the manufacturer (see table '9. Manufacturer's default setting') and only need to be adjusted to your personal requirements. Please touch the manual/automatic button (top left) in order to change from the manual to the automatic operation mode. The hand symbol ☞ will disappear and the button will indicate **Auto**. The sunshade will now automatically move up and down at the programmed times. Touching the "Auto" button [□] again will change back to the manual mode. Even in the automatic mode, sunshades can always be operated with the [▲] or [▼] buttons. In order to stop moving sunshades, simply touch the opposite direction button.

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