



## INSTALLATION AND OPERATING INSTRUCTIONS MC P4 SERIES

### MC P4



This manual is suitable for the following products:

- MC P4 (01077430)
- MC P4 VRS (01077414)
- MC P4 Complete (01077431)
- MC P4 VRS Complete (01077432)

Documentnumber: 85203121 H1

Programmable motor controls for operating 4 sunshade devices with group and individual controls, either wire-bound or via 868 MHz radio link.

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.



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## SAFETY PRECAUTIONS

### GENERAL INFORMATION

These safety instructions are part of the product and must be fully read and understood before installation, electrical connection, commissioning and use.

- The device may only be used for its intended purpose (control of up to two 230 V sun shading motors, wired or via VRS radio).
- Installation, wiring and commissioning may only be carried out by qualified electrical personnel.
- National regulations, VDE standards (DIN VDE 0100/0700), accident prevention rules and the technical data must be observed.
- Do not install or operate the device if it shows visible damage.
- Modifications to the device are not permitted.
- The operator must ensure that all subsequent users receive these safety instructions.

### SAFETY WARNINGS



#### ELECTRICAL HAZARDS

**DANGER** – Risk of fatal electric shock.

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



#### RADIO AND EMC INFORMATION

**CAUTION** – Malfunctions due to electromagnetic interference.



#### HAZARDS FROM MOVING SUN SHADING SYSTEMS | WARNING –

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



#### ELECTRICAL HAZARDS

**DANGER** – Operate the device only within the specified ambient temperature range (0–40 °C).



#### NOTE

The complete safety instructions can be found at: [www.vestamatic.com/safety](http://www.vestamatic.com/safety)



SCAN ME

## SUPPORT/CONTACT

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## VARIANTS

- MC P4
- MC P4 VRS



- MC P4 COMPLETE
  - MC P4 VRS COMPLETE
- Grommets already installed (6x M16, 2x M20)




## TECHNICAL DATA

### SHORT DESCRIPTION

- Microprocessor-powered motor controller for controlling up to four rollershutter / sunshade motor, Usable for venetian blinds (factory setting) or roller blinds / screens / shutters
- Standard 3-wire central input.
- Direct connection available for four 230VAC motors.
- Connection available for group button.
- Connection available for four individual buttons.
- Separate connection terminals for mains supply and central transmission.
- 10 different operating modes can be set, incl. inching mode and intelligent decentralised operation.
- Motor run time/tilting time can be individually set.
- Control via VRS radio remote control or VRS wall-mounted radio transmitter (MC P4 VRS).
- Control via serial bus communication protocol - RS485 RTU.

PARAMETER	VALUE
Power supply	230 VAC, 50 Hz
Impulse voltage withstand level	2,5 kV
Radio frequency (VRS variants only)	868 MHz
Rated power	2.6 W

## TECHNICAL DATA

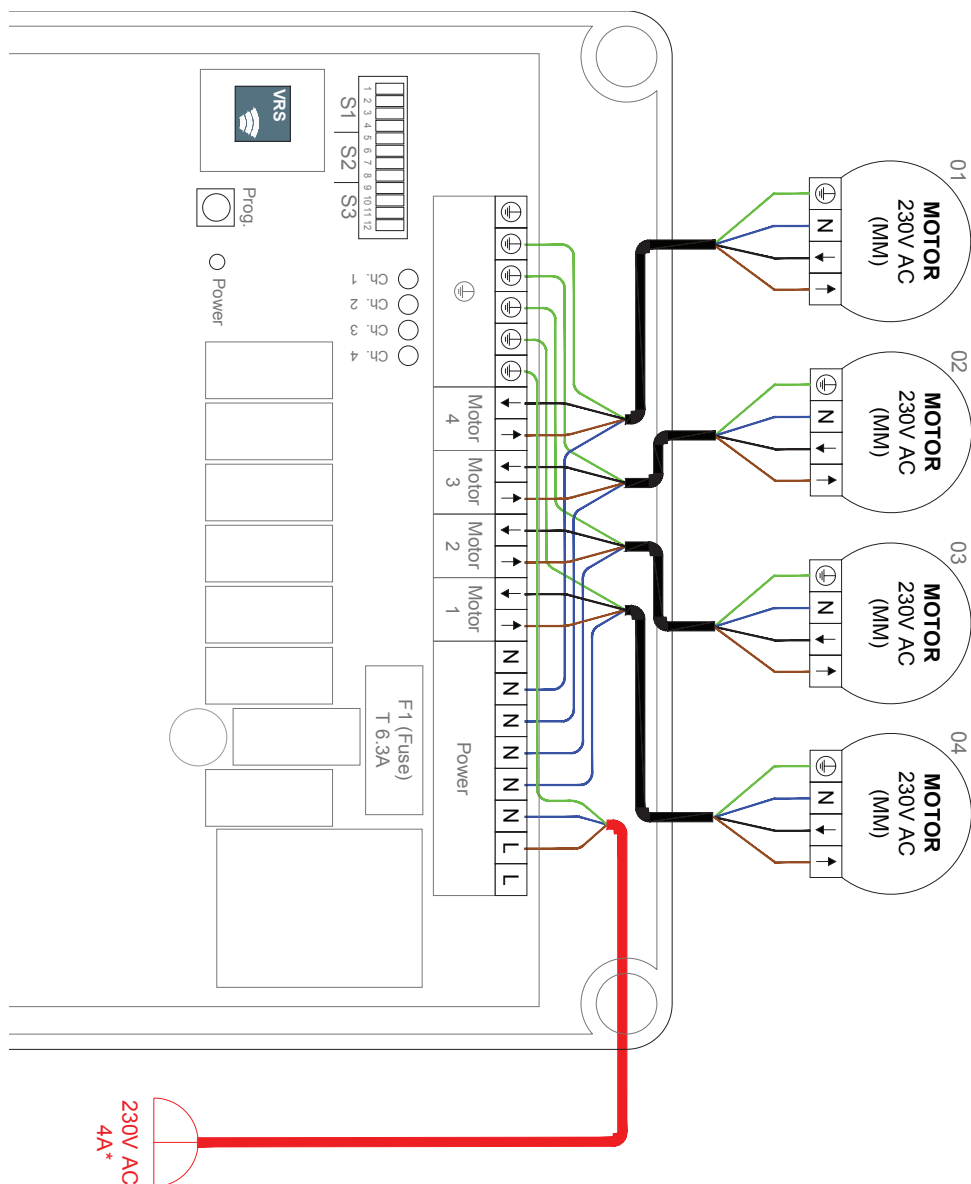
PARAMETER	VALUE
Fuse	T 6.3A
Output	230VAC, 50 Hz
Maximum load:	250VAC, 4A, $\cos \varphi \geq 0.8$ ind.
Align switching time extend:	3 – 180 s
Align switching time retract:	180 s
Permissible motor current:	max. 6A
Operating temperature	0 °C (32 °F) to +40 °C (104 °F)
IP class:	IP 54
Dimensions (L × W × H)	170 × 134 × 85 mm (without connections)
Conformität	

## INSTALLATION / WIRING DIAGRAM

### NOTES FOR PROFESSIONAL ELECTRICIANS

- 1: Switch off the power supply.
- 2: Undo the housing cover screws and lift off the housing cover.
- 3: Use the four mounting holes at the edges of the housing to mount it.
- 4: Connect the power supply cables and external connections according to the wiring diagram. Do not lay cables above or below the PC board.
- 5: Set the desired operating mode.
- 6: Set the desired motor run time and the tilting time, if necessary.
- 7: Switch on the power supply.
- 8: Check the motor's direction of rotation and correct it, if necessary.
- 9: Replace the housing cover and tighten the housing cover screws.

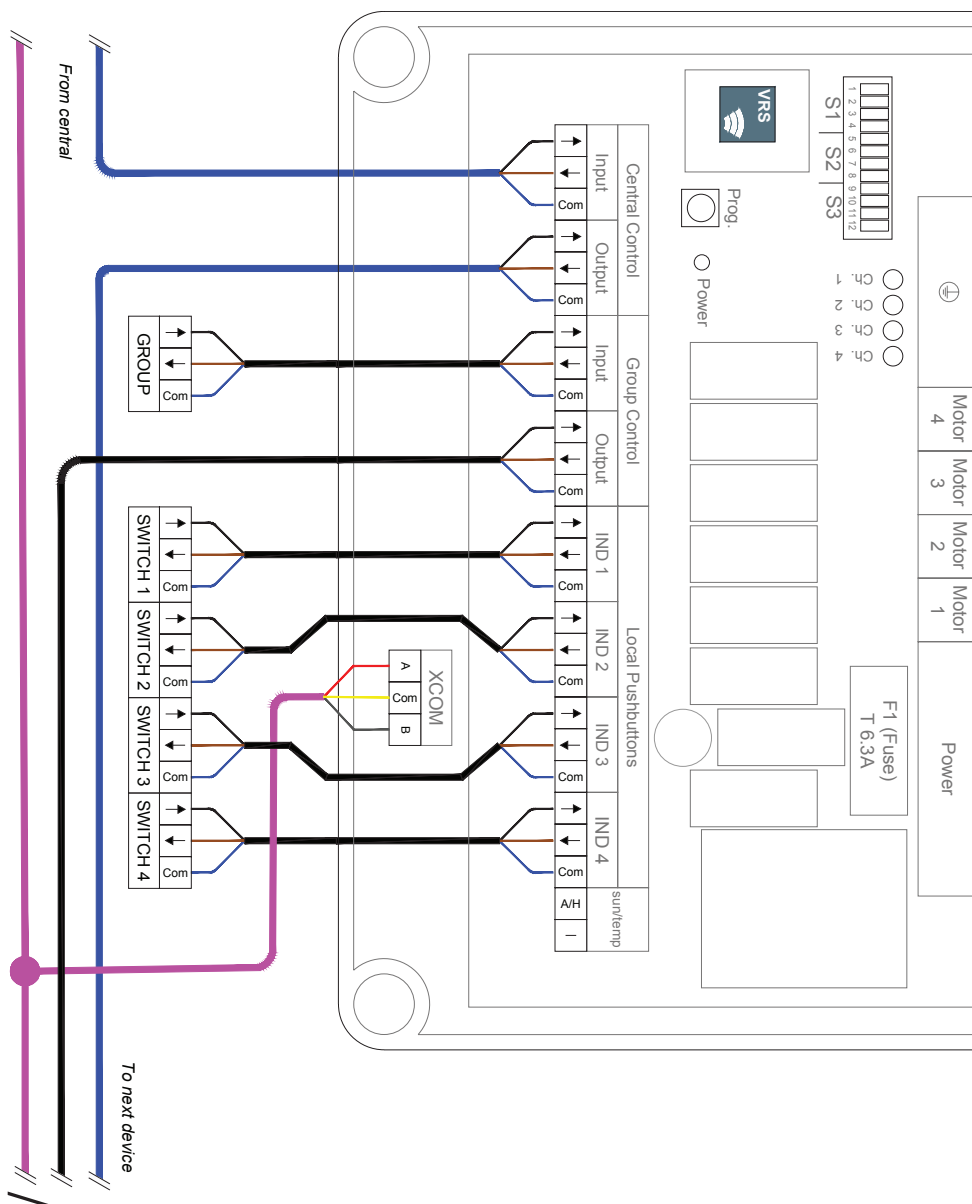
## INSTALLATION / WIRING DIAGRAM

**NOTE**

For MC P4 Housing and MC P4 VRS Housing: Please manually cut out for the cable connections and add a strain relief.

For MC P4 Complete housing strain relief is included.

# INSTALLATION / WIRING DIAGRAM



## OPERATION

Individual operation is performed by using a locked/unlocked button.



### WARNING

No individual operation is possible while a central command is being executed.

**NOTE**

The following descriptions are valid for all types MC P4 in this technical documentation

**IDS FUNCTION**

- The IDS (Intelligent Decentralised Sunshade control) feature enables the sun- and temperature dependant control signals on the central controls to be disabled when a button is pressed on the decentralised controls. No additional installation work is required.
- In operating mode 4 the IDS-Function enables you to suppress sun- and temperature dependent extract or extend commands while all other central commands, such as for privacy and safety protection use are continuously executed. To enable this function connect a switch to A/H input and Common (-).
- In operating modes 9 and 10, the sun- or temperature-dependent central commands are masked by pressing the group or individual button. All further sun- and temperature-dependent retract/extend commands will then be masked for 4 hours. Each additional operation via the individual command will result in the sun or temperature-dependent central com-mands being masked for a further 4 hours.
- After the set period has elapsed, the MC P4 control will be reset automatically and all sun- and temperature-dependent central controls will then be executed as normal.



Shutters



Roller Blinds



Screens



Awnings



Venetian Blinds

**FUNCTIONAL DESCRIPTION****WARNING!**

The operating modes 4 to 6, 9 and 10 may only be used in conjunction with Vestamatic controls with IDS functionality.

**OPERATING MODE 1 | APPLICATION****Standard venetian blinds / curtains**

Individual control: Pressing the control button for more than 2 seconds moves the sun shading to the end position.

With a short button press (under 2 seconds), the sun shading moves only while the button is held. Central control: The sun shading is operated in hold-to-run mode.

**OPERATING MODE 2 | APPLICATION****Venetian blinds / curtains with soft start**

Same operation as Mode 1, but with a soft start. If the control button is pressed for more than 5 seconds, the sun shading moves to the end position.

## FUNCTIONAL DESCRIPTION

### OPERATING MODE 3 | APPLICATION

#### Roller shutters

Individual control: Pressing the button moves the sun shading immediately to the end position. Central control: The sun shading is operated in hold-to-run mode.

### OPERATING MODE 4 | APPLICATION

#### IDS venetian blinds / curtains with autom. lock

Individual control: Pressing the control button for more than 2 seconds moves the sun shading to the end position. With a short button press (under 2 seconds), the sun shading moves in hold-to-run mode. Central commands: Sun- and temperature-dependent central commands can be suppressed via a switch connected to terminals 31/32.

### OPERATING MODE 5 | APPLICATION

#### IDS special venetian blinds / curtains

Same as Operating Mode 4, but with special function 1 (Tilting via individual control possible)

### OPERATING MODE 6 | APPLICATION

#### IDS special venetian blinds / curtains

Same as Operating Mode 4, but with special function 2 (Tilting via individual control possible).

### OPERATING MODE 7 | APPLICATION

#### Rolläden

Individual control: Pressing the button moves the sun shading immediately to the end position. Central control: Pressing the control button moves the sun shading immediately to the end position.

### OPERATING MODE 8 | APPLICATION

#### Venetian blinds / curtains without soft start

Individual control: Pressing the control button for more than 2 seconds moves the sun shading to the end position. With a short button press (under 2 seconds), the sun shading moves in hold-to-run mode. Central control: Pressing the control button for more than 2 seconds moves the sun shading to the end position.

### OPERATING MODE 9 | APPLICATION

#### IDS venetian blinds / curtains – 4-hour lock

Individual control: Pressing the control button for more than 2 seconds moves the sun shading to the end position. With a short button press (under 2 seconds), the sun shading moves in hold-to-run mode. Central commands: Sun- and temperature-dependent central commands are suppressed for 4 hours by pressing the individual control button.

### OPERATING MODE 10 | APPLICATION

#### IDS venetian blinds / curtains – 4-hour lock

Individual control: Pressing the control button for more than 2 seconds moves the sun shading to the end position. Central commands: Sun- and temperature-dependent central commands are suppressed for 4 hours by pressing the individual control button.

## FUNCTIONAL DESCRIPTION



### NOTE FOR OPERATING MODES 9 AND 10!

Pressing the group button will block all 4 outputs for sun- and temperature-dependent central commands for 4 hours simultaneously. Pressing an individual button will only block that particular output from sun and temperature-dependent central commands for 4 hours.

### RUN TIME OF THE EXTEND COMMAND

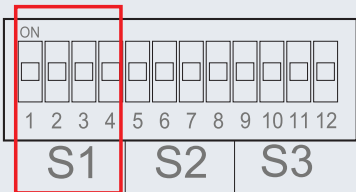
DIP switch S3:					
DIP 9	DIP 10	DIP 11	DIP 12	RUN TIME	*
The duration of the retract command is always 180 s. **					
OFF	OFF	OFF	OFF	5 s	
OFF	OFF	OFF	ON	10 s	
OFF	OFF	ON	OFF	15 s	
OFF	OFF	ON	ON	18 s	
OFF	ON	OFF	OFF	21 s	
OFF	ON	OFF	ON	24 s	
OFF	ON	ON	OFF	27 s	
OFF	ON	ON	ON	30 s	
ON	OFF	OFF	OFF	35 s	
ON	OFF	OFF	ON	40 s	
ON	OFF	ON	OFF	50 s	
ON	OFF	ON	ON	60 s	
ON	ON	OFF	OFF	80 s	
ON	ON	OFF	ON	100 s	
ON	ON	ON	OFF	120 s	
ON	ON	ON	ON	180 s	default settings

\* This is where you can note your project-specific basic settings.

\*\* The set run time can be overwritten by RS485, the last configured value will be used.

# FUNCTIONAL DESCRIPTION

## OPERATION MODE

DIP switch S1:							
							
DIP 1	DIP 2	DIP 3	DIP 4	OPERATING MODE		TILTING	*
				No.	Application		
OFF	OFF	OFF	OFF	1	standard venetian blinds / curtain blinds	possible only via central command	
OFF	OFF	OFF	ON	2	venetian blinds / curtain blinds with slow start velocity	possible only via central command	
OFF	OFF	ON	OFF	3	roller shutters	possible only via central command	
OFF	OFF	ON	ON	4	IDS venetian bl. / curtain bl. with autom. interlock	Adjustable, 0 – 2 s	
OFF	ON	OFF	OFF	5	IDS spec. venetian blinds / curtain blinds special function 1	Adjustable, 0 – 5 s	
OFF	ON	OFF	ON	6	IDS spec. venetian blinds / curtain blinds special function 2	Adjustable, 0 – 2 s	
OFF	ON	ON	OFF	7	roller shutters	No tilting possible	
OFF	ON	ON	ON	8	venetian blinds without slow start velocity	possible only via central command	
ON	OFF	OFF	OFF	9	IDS venetian bl. / curtain bl. 4h locking	Adjustable, 0 – 2 s	
ON	OFF	OFF	ON	10	IDS venetian bl. / curtain bl. 4h locking	Adjustable, 0 – 2 s	



Shutters



Roller Blinds



Screens



Awnings



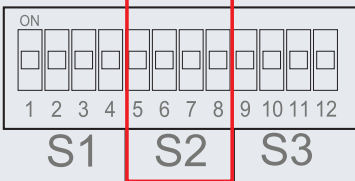
Venetian Blinds

## FUNCTIONAL DESCRIPTION

### TILTING TIME

#### TILTING TIME TABLE FOR MODE 4, 6, 9, 10

Depending on the operating mode selected one of the following tables shall apply for setting the required tilting time. The tilting time will only be executed after a central command!

DIP switch S2:					
					
DIP 5	DIP 6	DIP 7	DIP 8	TILTING TIME	*
OFF	OFF	OFF	OFF	no tilting	default settings
OFF	OFF	OFF	ON	0.1 s	
OFF	OFF	ON	OFF	0.2 s	
OFF	OFF	ON	ON	0.3 s	
OFF	ON	OFF	OFF	0.4 s	
OFF	ON	OFF	ON	0.5 s	
OFF	ON	ON	OFF	0.6 s	
OFF	ON	ON	ON	0.7 s	
ON	OFF	OFF	OFF	0.8 s	
ON	OFF	OFF	ON	0.9 s	
ON	OFF	ON	OFF	1.0 s	
ON	OFF	ON	ON	1.2 s	
ON	ON	OFF	OFF	1.4 s	
ON	ON	OFF	ON	1.6 s	
ON	ON	ON	OFF	1.8 s	
ON	ON	ON	ON	2.0 s	

\* This is where you can note your project-specific basic settings.

## FUNCTIONAL DESCRIPTION

### TILTING TIME

#### TILTING TIME TABLE FOR MODE 5

Depending on the operating mode selected one of the following tables shall apply for setting the required tilting time. The tilting time will only be executed after a central command!

DIP switch TILT:					
DIP 5	DIP 6	DIP 7	DIP 8	TILTING TIME	*
OFF	OFF	OFF	OFF	no tilting	default settings
OFF	OFF	OFF	ON	0.4 s	
OFF	OFF	ON	OFF	0.7 s	
OFF	OFF	ON	ON	1.0 s	
OFF	ON	OFF	OFF	1.3 s	
OFF	ON	OFF	ON	1.6 s	
OFF	ON	ON	OFF	1.9 s	
OFF	ON	ON	ON	2.2 s	
ON	OFF	OFF	OFF	2.5 s	
ON	OFF	OFF	ON	2.8 s	
ON	OFF	ON	OFF	3.1 s	
ON	OFF	ON	ON	3.4 s	
ON	ON	OFF	OFF	3.7 s	
ON	ON	OFF	ON	4.0 s	
ON	ON	ON	OFF	4.5 s	
ON	ON	ON	ON	5.0 s	

\* This is where you can note your project-specific basic settings.

# PROGRAMMING VRS TRANSMITTER



## NOTE

The following descriptions are valid only for the radio version MC P4 VRS.

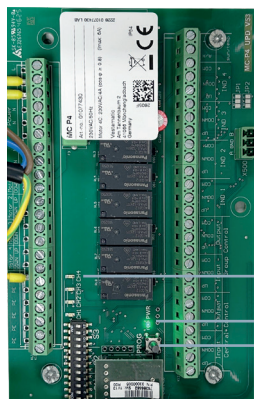
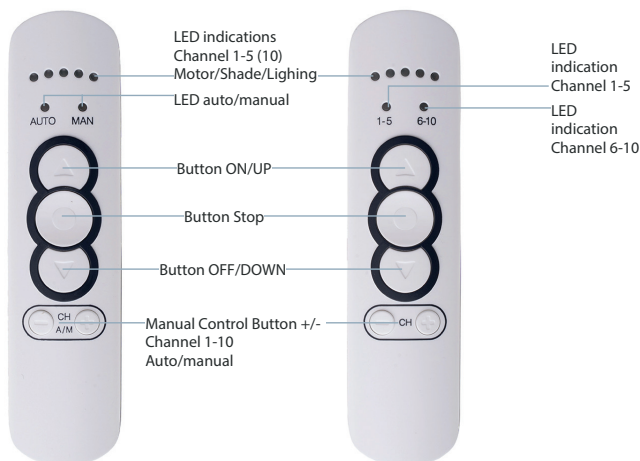
## BUTTON DESCRIPTION

VRS Transmitter 5c  
(Art-No 01580070)

VRS Transmitter 10c  
(Art-No 01580080)



Programm Button  
at the back side



DIP Switches

Red LED  
Motor 1-4

Green LED Power/  
Program Mode

Programm  
Button on MC P4

## ENTER PROGRAMMING MODE ON MC P4

- Press the Prog. button for 3 seconds until the red "Ch. 1" LED flashes. **Programming mode will now remain open for 2 minutes.**
- You can now program a radio transmitter for motor 1. The programming mode will close after VRS transmitter has been added.

## TO SELECT OTHER CH./PROGRAM OTHER MOTOR:

- Briefly press Prog. button, the red "Ch. 2" LED flashes
- Briefly press Prog. button, the red "Ch. 3" LED flashes
- Briefly press Prog. button, the red "Ch. 4" LED flashes
- Briefly press Prog. button, the red "Ch.1+2" LED flashes
- Briefly press Prog. button, the red "Ch. 3 + 4" LED flashes
- Briefly press the Prog. button, the red "Ch.1- 4" LED flashes



## NOTE

The distance between two control units must be at least 50 cm to ensure reliable operation of VRS remote controls.


# PROGRAMMING VRS TRANSMITTER

## FUNCTIONS, PROGRAMMING AND CANCELING THE REMOTE CONTROL SETTINGS

### CHANGE CHANNEL

Manual Control Button x1  
+ or -



Use the Button  to select the Channel. The selection is saved immediately.

The LEDs show the current selected channel.

### SWITCHING FROM AUTO TO MANUAL MODE

Press and hold -  
then + x3s



The LEDs AUTO or MAN and the channels will light up briefly.

## PAIR THE TRANSMITTER TO THE CONTROL BOX

Example: Program the radio remote control to "Ch.1" = motor 1:

Select Channel  
Press + or - Button x1



Press Prog. Button on MC  
P4 VRS x3s



Press ON/UP, OFF/DOWN  
or Stop x1



The 4 red LEDs on the MC P4 VRS will light up (for 1 second) to indicate that programming was successful.

Motor 1 channel can now be operated.

The LEDs show the current selected channel.

Until the red „Ch. 1“ LED  
flashes.

## AFTER THAT: CHOOSE BETWEEN JOG MODE AND CONTINUOUS MODE

Briefly press the ON/UP  
or OFF/DOWN button x1



= Jog mode

Press the ON/UP  
or OFF/DOWN button x3s



= Continuous mode

## PROGRAMMING VRS TRANSMITTER

### CANCEL REMOTE CONTROL SETTINGS / CANCEL ONE MOTOR ASSIGNMENT

Example: Cancel the remote control to "Ch.1" = motor 1:

Select Channel:  
Press + or - Button x1



The LEDs show the current selected channel.

Press Prog. Button on MC  
P4 VRS x3s



Until the red „Ch. 1“ LED  
flashes.

Press Prog. Button  
x1(+)



until the displayed  
LEDs flash

\*Channel 1-3 + AUTO + MAN

Press Stop x1



The 4 red LEDs on the **MC P4 VRS** will light up (for 1 second) to indicate that cancelling was successful.

### CANCEL ALL REMOTE CONTROL SETTINGS

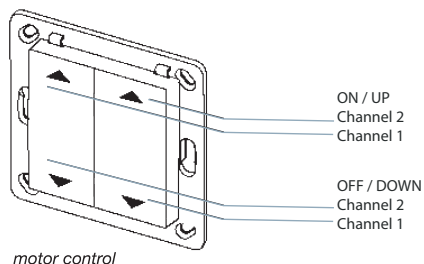
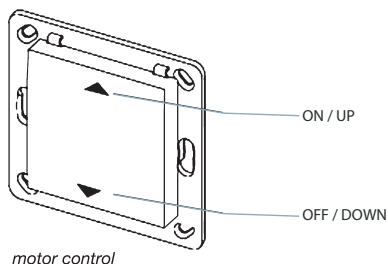
Press Prog. Button on MC  
P4 VRS x10s



The 4 red LEDs on the **MC P4 VRS** will light up (for 1 second) to indicate that cancelling was successful.

### FUNCTIONS, PROGRAMMING AND CANCELLING THE WALL-MOUNTED VRS TRANSMITTER BUTTON DESCRIPTION

**i** **NOTE**  
Available as VRS Switch 1 and VRS Switch 2.



**i** **NOTE**  
STOP by pressing the opposite button.

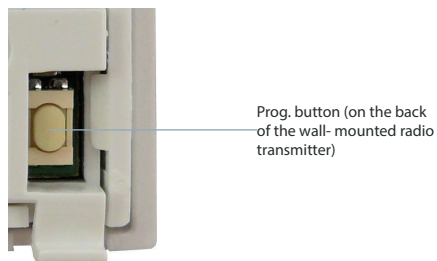
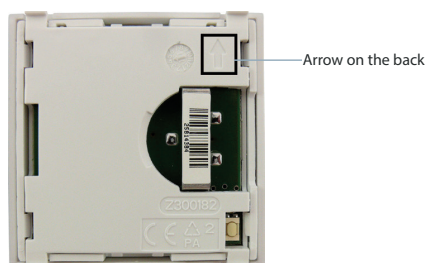
## PROGRAMMING VRS TRANSMITTER

### FUNCTIONS, PROGRAMMING AND CANCELLING THE WALL-MOUNTED RADIO TRANSMITTER BUTTON DESCRIPTION



#### INSTALLATION NOTE

While installing the wall remote, please ensure that the arrow on the back is facing the ceiling.



### PAIR THE TRANSMITTER TO THE CONTROL BOX RESET / CANCEL ALL TRANSMITTER

To pair the VRS wall-mounted transmitter, please follow the steps previously described for pairing the VRS remote control:

- Procedure: identical to the VRS remote control
- Note: same functions, same pairing process

### CANCEL THE WALL-MOUNTED RADIO TRANSMITTER SETTINGS

Example: Cancel the remote control to "Ch.1" = motor 1:

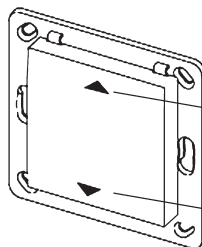
Press Prog. Button on MC P4 VRS x3s



Press Prog. Button x1(+)



Press ON/UP or OFF/DOWN x5s



The 4 red LEDs on the MC P4 VRS will light up (for 1 second) to indicate that cancelling was successful.

Until the red „Ch. 1“ LED  
● flashes.

## 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.
- 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.

This product is maintenance-free.