



INSTALLATION AND OPERATING INSTRUCTIONS MC P2 VRS SERIES

MC P2 VRS



This manual is suitable for the following products:

- MC P2 VRS (01077054)
- MC P2 Complete VRS (01077058)

Documentnumber: 85900623 B1

Programmable motor controls for operating 2 motors with central, group and individual control; available for wired switches and wireless (VRS) control, available in different housing types.

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



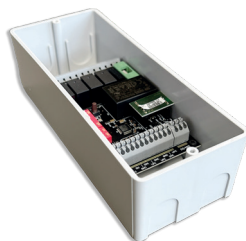
SCAN ME

SUPPORT/CONTACT

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VARIANTS

■ MC P2 VRS



■ MC P2 COMPLETE VRS

Grommets already installed (6x M16, 2x M20)




TECHNICAL DATA

SHORT DESCRIPTION

- Microprocessor-powered motor controller for controlling up to two rollershutter / sunshade motor, Usable for venetian blinds (factory setting) or roller blinds / screens / shutters
- Standard 3-wire central input.
- Direct connection available for two 230VAC motors.
- Connection available for two 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 P2 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)	868,3 MHz
Rated power	1,8 W

TECHNICAL DATA




PARAMETER	VALUE
Fuse	6 AT
Output	230VAC, 50 Hz
Maximum load:	250VAC, 6 A, $\cos \varphi \geq 0,8$ ind.
Align switching time extend:	3 – 180 s
Align switching time retract:	180 s
Permissible motor current when 1 motor connected	6 A max.
when 2 motor connected	3 A max. each
Operating temperature	0 °C to +40 °C
IP class:	IP 40
Dimensions (L x W x H)	186 x 55 x 74 mm
Conformität	

INSTALLATION / WIRING DIAGRAM

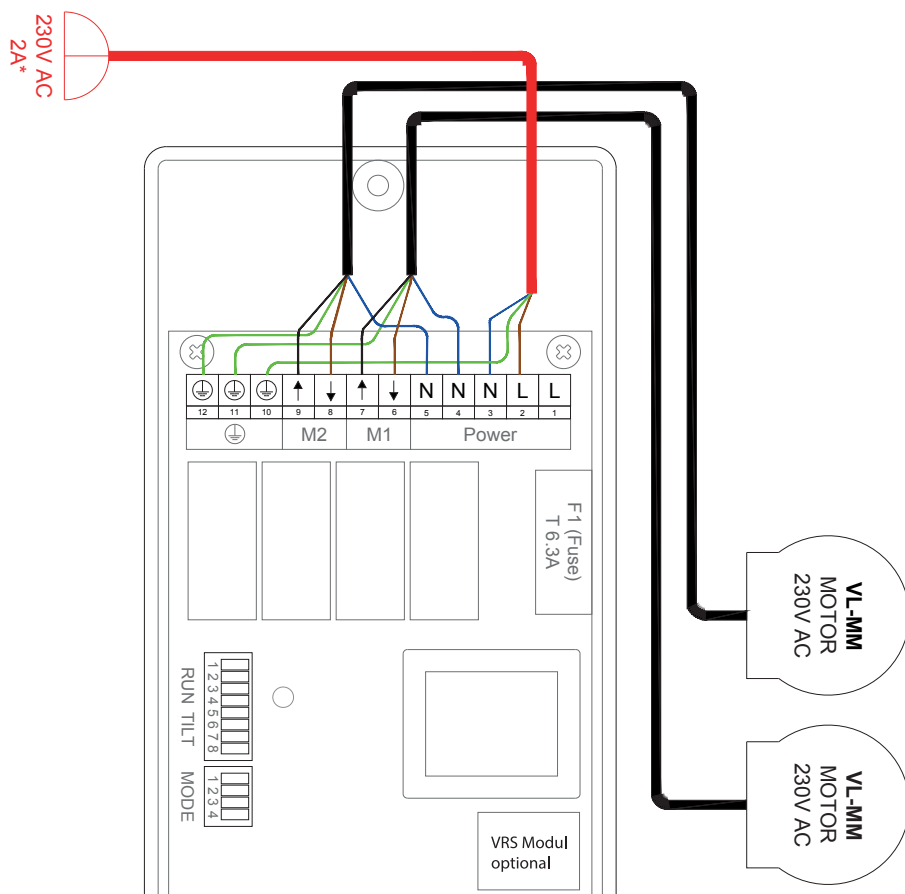
NOTES FOR PROFESSIONAL ELECTRICIANS

- 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.

CABLE RECOMMENDATION

-  red: 230V (NYM 3x1.5²)
-  black: (H05VV 4x0.75²)
-  blue: (NYM 4x1.5²)

INSTALLATION / WIRING DIAGRAM

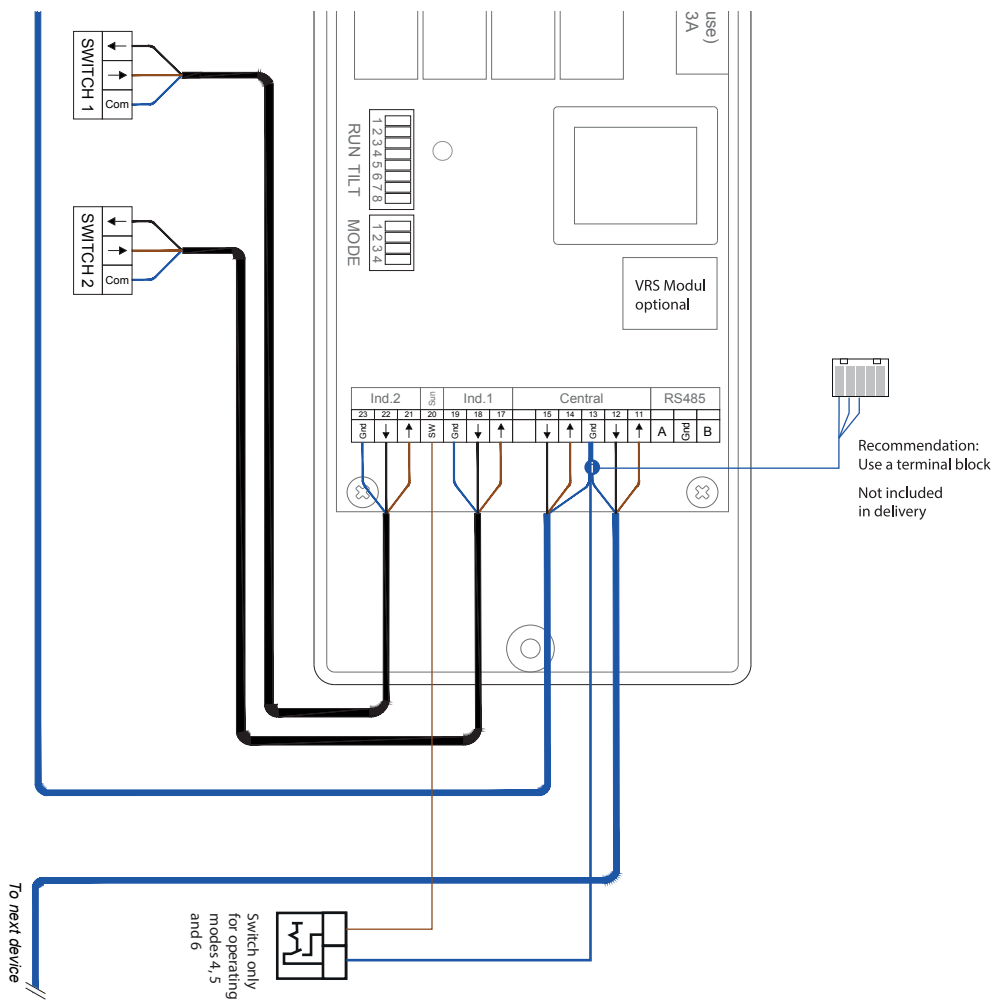


NOTE

For MC P2 Housing and MC P2 VRS Housing: Please manually cut out for the cable connections and add a strain relief.

For MC P2 Complete/Fitted housing strain relief is included.

INSTALLATION / WIRING DIAGRAM



OPERATION



WARNING

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

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

**NOTE**

The following descriptions are valid for all types MC P2 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 P2 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

Pressing an individual button will only block that particular output from sun and temperature-dependent central commands for 4 hours (adjustable).

When performing work on the windows, controls or connected shades, protect them against unauthorised or unintentional operation.

RUN TIME OF THE EXTEND COMMAND


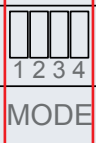
DIP switch RUN:					
DIP 1	DIP 2	DIP 3	DIP 4	RUN TIME	*
The duration of the retract command is always 180 s. **					
OFF	OFF	OFF	OFF	5s	
OFF	OFF	OFF	ON	10s	
OFF	OFF	ON	OFF	15s	
OFF	OFF	ON	ON	18s	
OFF	ON	OFF	OFF	21s	
OFF	ON	OFF	ON	24s	
OFF	ON	ON	OFF	27s	
OFF	ON	ON	ON	30s	
ON	OFF	OFF	OFF	35s	
ON	OFF	OFF	ON	40s	
ON	OFF	ON	OFF	50s	
ON	OFF	ON	ON	60s	
ON	ON	OFF	OFF	80s	
ON	ON	OFF	ON	100s	
ON	ON	ON	OFF	120s	
ON	ON	ON	ON	180s	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 MODE:							
 RUN TILT				 MODE			
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, 0-2s	
OFF	ON	OFF	OFF	5	IDS spec. Venetian blinds/ Curtain blinds special function 1	Adjustable, 0-5s	
OFF	ON	OFF	ON	6	IDS spec. Venetian blinds/ Curtain blinds special function 2	Adjustable, 0-2s	
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, 0-2s	
ON	OFF	OFF	ON	10	IDS Venetian bl./Curtain bl 4h locking	Adjustable, 0-2s	



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


* 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	0.4s	
OFF	OFF	ON	OFF	0.7s	
OFF	OFF	ON	ON	1.0s	
OFF	ON	OFF	OFF	1.3s	
OFF	ON	OFF	ON	1.6s	
OFF	ON	ON	OFF	1.9s	
OFF	ON	ON	ON	2.2s	
ON	OFF	OFF	OFF	2.5s	
ON	OFF	OFF	ON	2.8s	
ON	OFF	ON	OFF	3.1s	
ON	OFF	ON	ON	3.4s	
ON	ON	OFF	OFF	3.7s	
ON	ON	OFF	ON	4.0s	
ON	ON	ON	OFF	4.5s	
ON	ON	ON	ON	5.0s	

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

PROGRAMMING VRS TRANSMITTER



NOTE

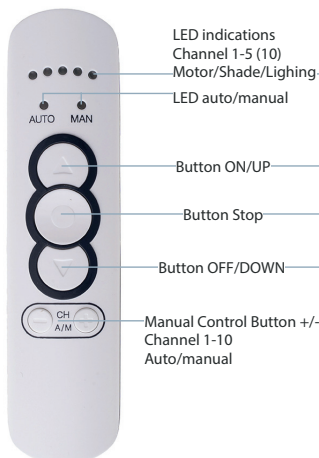
The following descriptions are valid only for the radio version MC P2 VRS.

BUTTON DESCRIPTION

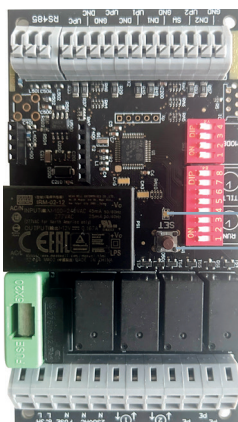
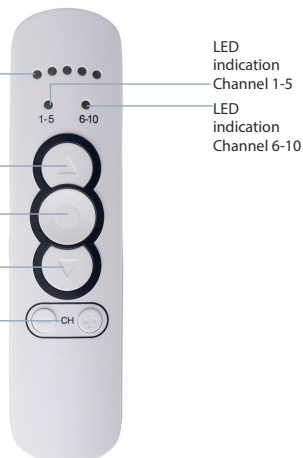


Programm Button
at the back side

VRS Transmitter 5c
(Art-No 01580070)



VRS Transmitter 10c
(Art-No 01580080)



- DIP Switches
- LED Motor 1-2
- Programm Button on MC P2

ENTER PROGRAMMING MODE ON MC P2

- Press the Prog. button for 3 seconds until the red 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 blue LED flashes for Motor 2
- Briefly press Prog. button, the pink LED flashes for Motor 1+2



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



The LEDs show the current selected channel.

Press Prog. Button on
MC P2 VRS x3s



Until the red LED  flashes.

Press ON/UP, OFF/DOWN
or Stop x1



The pink LED on the MC P2 VRS will light up (for 3 seconds) to indicate that programming was successful.

Motor 1 channel can now be operated.

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 P2 VRS **x3s**



Until the red LED **●** flashes.

Press Prog. Button
x1(+)



until the displayed LEDs flash

Press Stop **x1**



The pink LED on the **MC P2 VRS** will light up (for 3 seconds) to indicate that cancelling was successful.

CANCEL ALL REMOTE CONTROL SETTINGS

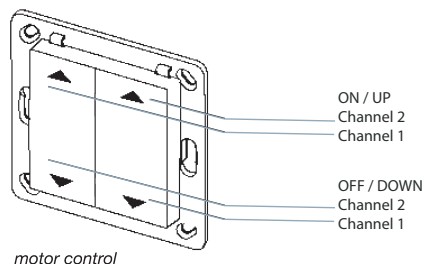
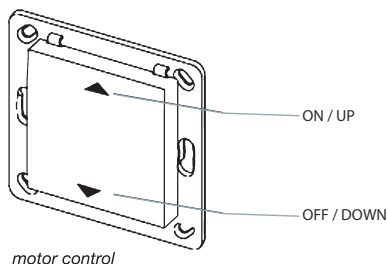
Press Prog. Button on
MC P2 VRS **x10s**



The pink LED on the **MC P2 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.

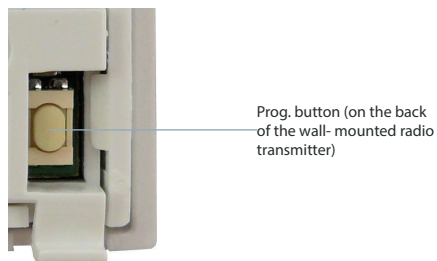
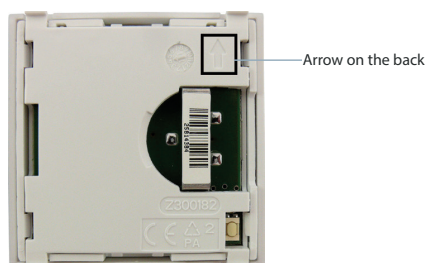
PROGRAMMING VRS TRANSMITTER

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

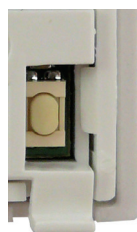
CANCEL THE WALL-MOUNTED RADIO TRANSMITTER SETTINGS

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

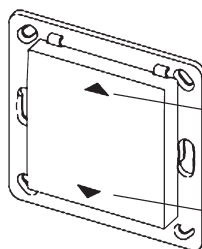
Press Prog. Button on
MC P2 VRS x3s



Press Prog. Button
x1(+)



Press ON/UP or OFF/
DOWN x5s



The pink LED on the
MC P2 VRS will light
up (for 3 seconds) to
indicate that cancel-
ling was successful.

Until the red 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.