



WCC 103 A / WCA 100

MotorController and remote control



Comfort
ventilation

230V

Operating
voltage

24V

±24V DC
actuators



Mobile
Management

Application

- for daily comfort ventilation
- for controlling $\pm 24V$ DC standard window actuators
- 1 comfort ventilation group at max. 3A
- may be combined with external temperature and time automated BMS
- wireless operation - opening/stop/closing of windows - via remote control (WCA 100) or app (Fresh Air Control)

MotorController for controlling $\pm 24V$ DC standard actuators for daily comfort ventilation. It can also control locking actuators. The number of actuators that may be connected to the motor line depends on the type of actuator – see the table, “Maximum number of actuators per MotorController” for type/number.

Description

MotorController - WCC 103 A

The MotorController controls (opens/closes) the window actuators based on a signal from a remote control (WCA 100), the app „Fresh Air Control“, connected comfort keypads or the connected component(s) e.g. room sensors and weather sensors.

Up to 10 MotorControllers can be connected as part of a larger solution and may be connected to the same weather station.

Remote control - WCA 100

The remote control offers easy control of connected window actuators (open/stop/close).

The remote control can be paired to only one MotorController.

App - Fresh Air Control

From the app „Fresh Air Control“ you can control the windows the same way as with the remote control - open/stop/close. For an easy overview in the app can the windows / window groups be named.

The app can connect to several MotorControllers.

Prioritised inputs

The actuators may be overridden via three prioritised inputs. All switches must be potential free.

- common CLOSE ALL/safety (rain) function (highest priority)
- hand operation of the motor line
- automated control of the motor line (lowest priority)

Power supply for external units

When connecting sensors the auxiliary power from the built-in 24V DC 500mA power supply can be used

Configuration

Via a DIP switch it can be configured if there should be maintained action on any connected comfort keypads.

Specifications

- 1 motor group with up to 3A in total
- max output voltage 24VDC at 230VAC
- simple and quick installation
- up to 10 MotorControllers may be linked
- rain/wind sensors can be connected
- 3 prioritised inputs
- wireless control via remote control WCA 100
- mobile management via app „Fresh Air Control“
(requires MotorController version 02 or higher)

The MotorController may either be mounted horizontally or vertically on a wall.

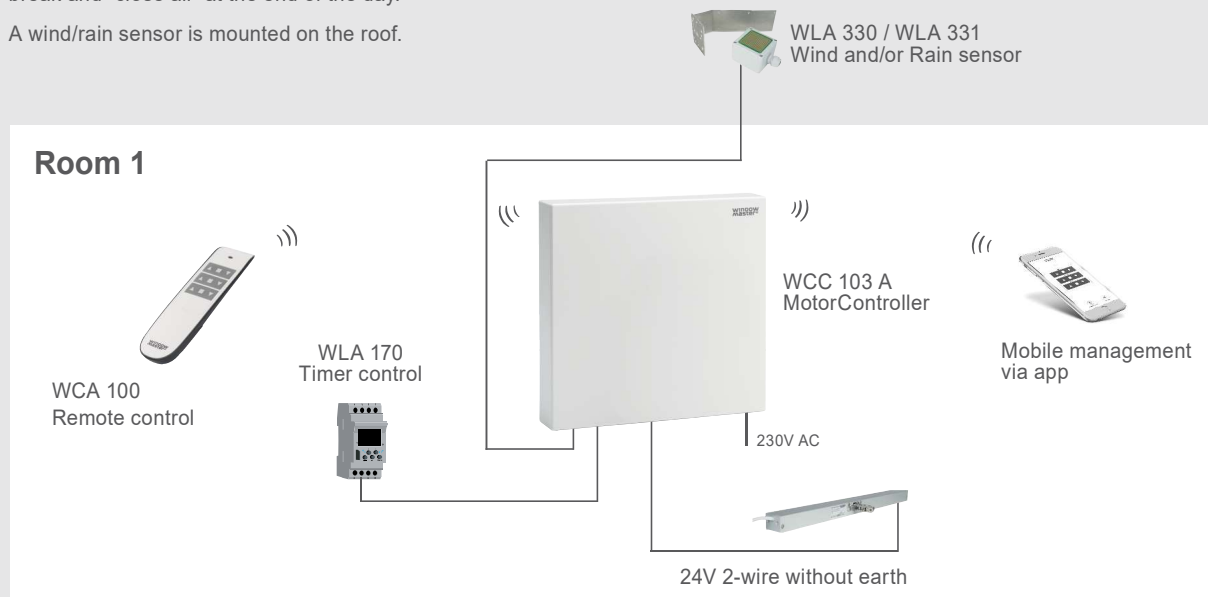
The remote control has an operation range up too 50m outside and 10m inside. Physical barriers such as walls, cabinets etc. will reduce the operation range.

Example: WCC 103 A with timer control, wind/rain sensor and app

In the room 1 pcs. $\pm 24V$ standard actuator is connected. The remote control or app is used for operation of the window.

A timer control is fitted that opens/closes the windows in the room at preset times, e.g. open and close at start and end of a lunch break and “close all” at the end of the day.

A wind/rain sensor is mounted on the roof.



Technical specifications - WCC 103 A		
Output current	3A incl. load on X7 (max 0.5A)	
Motor lines	1 x $\pm 24V$ standard motor line	
Primary voltage	100-240 VAC 0.85A 50/60Hz	
Actuator secondary voltage	Nominal voltage Open circuit voltage at 230V AC (no load) Ripple at max load	24V DC ($\pm 15\%$) 24V DC @ 20°C 150mVp-p)
Power consumption	Idling < 0.5W Max load 77 W	
Leakage current	max 0.75mA @ 240VAC	
Inrush current on primary side	65A < 5ms v. 230V Max. 6 x WCC 103 per 10A power supply group. Circuit breaker "C" characteristic.	
AUX	24V DC, 500mA	
Operating conditions	-5°C - +45°C, for indoor installation, the controller may not be covered	
Switch-on duration	ED 40% (4 min. per 10 min.)	
Connection cable	Actuators Flexible max 6mm ² / solid max 10mm ² , max 2V voltage drop. Other components Min 0.2mm ² / max 1.5mm ²	
App	Control via app requires MotorController version 02 or higher	
Size	215 x 206 x 37mm (W x H x D)	
Material	Plastic	
Colour	White (RAL 9016)	
Weight	0.92kg	
IP rating	IP20	
Safety class	I (with PE)	
Delivery includes	Standard version: MotorController with 1.2 m cable with Schuko plug UK version: MotorController with 1.2 m cable with Schuko plug with UK network adapter CH version: MotorController with 1.2 m cable with Schuko plug with CH network adapter	
Note	We reserve the right to make technical changes and correct typing errors	

Technical specifications - WCA 100	
Primary voltage	2 x AAA alkaline batteries (1.5V)
Operation range between MotorController and remote control	- Outside: up to 50m in radius - Inside: up to 10m in radius Physical barriers such as walls, cabinets etc. will reduce the range.
Size	41 x 18 x 144mm (W x H x D)
Weight	61g (incl. batteries)
Delivery includes	Remote control with 2 x AAA Alkaline batteries
Note	We reserve the right to make technical changes and correct typing errors

Max number of actuators per MotorController

The following table shows the maximum number of actuators, based on actuator type ($\pm 24V$ standard) that can be connected to the MotorController. Total power consumption for all connected actuators may not exceed 3A.

Actuator type	Max. number $\pm 24V$ actuators that may be connected to WCC 103 A
WMD 820-1	3
WMD 820-2	2
WMD 820-3	3
WMS 306 / 309-1	3
WMS 306 / 309-2	2
WMS 306 / 309-3	3
WMS 409 xxxx 01	1
WMS 409-1	1
WMU 831 / 851-1	3
WMU 831 / 851-2	2
WMU 831 / 851-3	3
WMU 836-1	2
WMU 836-2	2
WMU 852-1	1
WMU 861-1	2
WMU 861-2	2
WMU 842 / 862 / 882-1	1
WMU 863 / 883-1	1
WMX 503 / 504 / 523 / 526-1	6
WMX 503 / 504 / 523 / 526-2	6
WMX 503 / 504 / 523 / 526-3	6
WMX 503 / 504 / 523 / 526-4	4
WMX 803 / 804 / 813 / 814 / 823 / 826-1	3
WMX 803 / 804 / 813 / 814 / 823 / 826-2	2
WMX 803 / 804 / 813 / 814 / 823 / 826-3	3
WML 820 / 825	3
WML 860-1	3
WML 860-2	2
WML 860-3	3
WMB 801 / 802	3
WMB 811 / 812 / 815/ 816 / 817 / 818 *	2
* When having two locking actuators on one motor line use: 1 x WMB 811 and 1 x WMB 812, 1 x WMB 815 and 1 x WMB 816 or 1 x WMB 817 and 1 x WMB 818	

WCC 103 A / WCA 100

MotorController and remote control

Variants	Item number
MotorController 3A	WCC 103 A 0102*
MotorController 3A, UK version	WCC 103 A 0402*
MotorController 3A, CH version	WCC 103 A 0602*
Remote control for WCC 10x A	WCA 100 0102

Accessories	Item number
Comfort keypad, for fitting	WSK 100 1161
Comfort keypad, 1 window or 1 window group	WSK 110 0A0B
Comfort keypad, for fitting (CH version)	WSK 300
Room thermostat: temperature	WLA 110
Wind/rain sensor	WLA 330
Rain sensor	WLA 331
Mobile phone app - can be downloaded from Google Play or App Store	"Fresh Air Control"

*02 enables control via app