

**WINDOW  
Master®**  
WCC 103 Motor  
Controller



# WINDOWMASTER WCC 103 Motor Controller Instruction Manual

[Home](#) » [WindowMaster](#) » WINDOWMASTER WCC 103 Motor Controller Instruction Manual 

## Contents

- [1 WINDOW MASTER WCC 103 Motor Controller](#)
- [2 Application](#)
- [3 Specifications](#)
- [4 motor controller](#)
- [5 Documents / Resources](#)
  - [5.1 References](#)

**WINDOW  
Master®**

**WINDOW MASTER WCC 103 Motor Controller**



## Application

- Comfort ventilation
- Operating voltage
- $\pm 24\text{V}$  DC actuators
- for daily comfort ventilation
- for controlling  $\pm 24\text{V}$  DC standard window actuators 1 comfort ventilation group at max. 3A maybe combined with external temperature and time-automated BMS

MotorController for controlling  $\pm 24\text{V}$  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

- The motor controller controls (opens/closes) the
- window actuators based on a signal from the connected component(s) e.g. comfort keypad (operating keypad), room sensor,s, and weather sensors.
- We recommend connecting the comforkeypadsad when sensors and other operators are connected so that users always, via the comfort keypads, can override the signals and open or close windows themselves should there be a need for more or less fresh air.
- Up to motor controllers can be connected as part of a larger solution and may be connected to the same weather station. Several MotorControllers may be operated from the same comfort keypad.
- The MotorController is also supplied with 3A and 6A versions which can be controlled from a remote control or app.

## Prioritised inputs

- The actuators may be overridden via three prioritized 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 the connected comfort keypads.

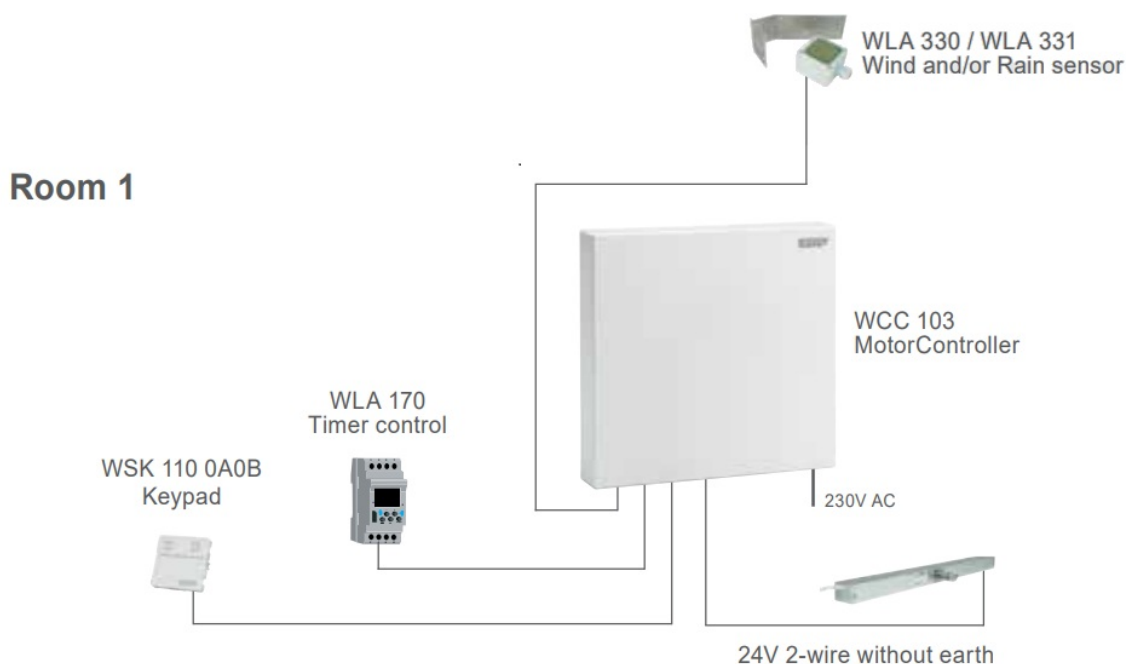
### Specifications

- 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

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

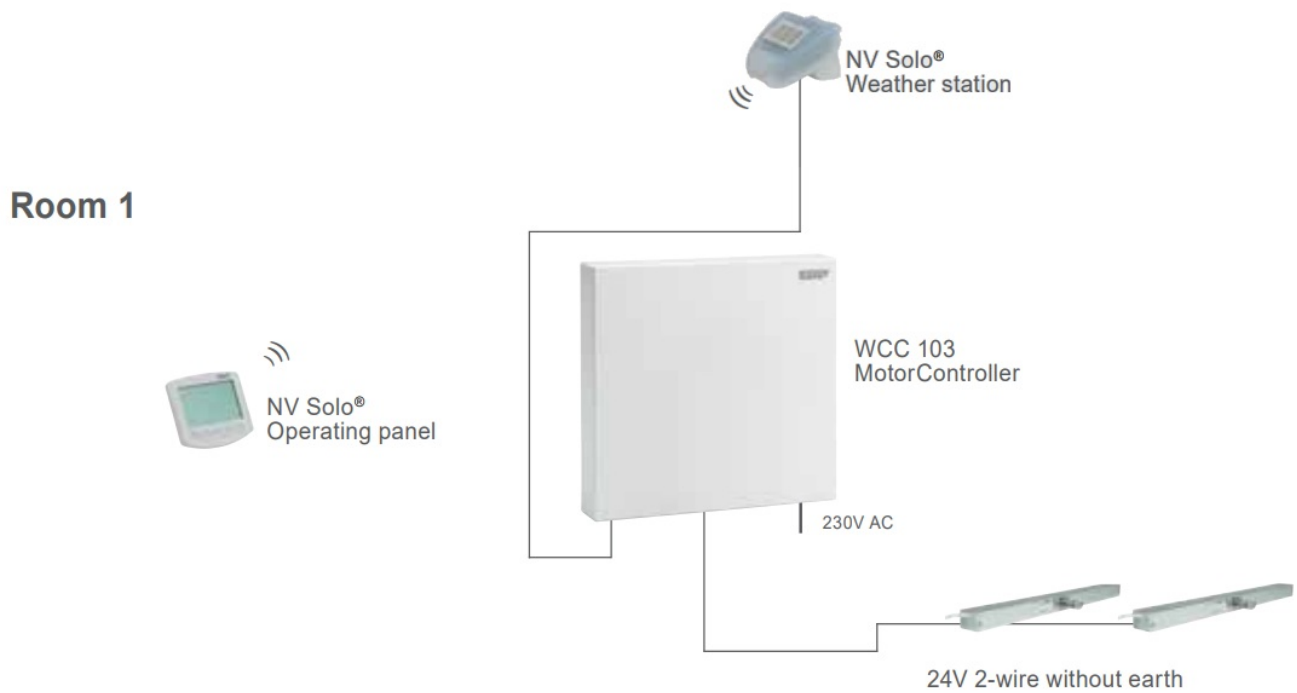
### Example 1: WCC 103 with timer control and wind/rain sensor

In the room 1 pcs.  $\pm 24V$  standard actuator is connected as well as comfort keypads for the individual 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 the 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.



### Example 2: WCC 103 with NV Solo®

In the room 2 pcs.  $\pm 24V$  standard actuators are connected. An NV Solo® control panel with a built-in temperature sensor and a comfort keypad for the individual operation of the actuators is installed. An NV Solo® weather sensor is mounted on the roof which gives signals to the NV Solo® control panel in the room.



Technical specifications		
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	24V DC ( $\pm 15\%$ )
	Open circuit voltage at 230V AC (no load) Ripple at max load	24V DC @ 20°C 150mVp-p
Power consumption	Idling < 0.5W Max load 77 W	
Leakage current	max 0.75mA @240VAC	
Inrush current on the 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	<b>Actuators</b> Flexible max 6mm <sup>2</sup> / solid max 10mm <sup>2</sup> , max 2V voltage drop. <b>Other components</b> Min 0.2mm <sup>2</sup> / max 1.5mm <sup>2</sup>	
Size	215 x 206 x 37mm (W x H x D)	
Material	Plastic	
Color	White (RAL 9016)	
Weight	0.92kg	
IP rating	IP20	
Safety class	I (with PE)	
Delivery includes	MotorController with 1.2 m cable with Schuko plug UK version supplied with UK network adapter.	
Note	We reserve the right to make technical changes	

#### 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 motor controller. 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
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<b>WMD 820-1</b>	3
<b>WMD 820-2</b>	2
<b>WMD 820-3</b>	3
<b>WMS 306 / 309-1</b>	3
<b>WMS 306 / 309-2</b>	2
<b>WMS 306 / 309-3</b>	3
<b>WMS 409 xxxx 01</b>	1
<b>WMS 409-1</b>	1
<b>WMU 831 / 851-1</b>	3
<b>WMU 831 / 851-2</b>	2
<b>WMU 831 / 851-3</b>	3
<b>WMU 836-1</b>	2
<b>WMU 836-2</b>	2
<b>WMU 852-1</b>	1
<b>WMU 861-1</b>	2
<b>WMU 861-2</b>	2
<b>WMU 842 / 862 / 882-1</b>	1
<b>WMU 863 / 883-1</b>	1
<b>WMX 503 / 504 / 523 / 526-1</b>	6
<b>WMX 503 / 504 / 523 / 526-2</b>	6
<b>WMX 503 / 504 / 523 / 526-3</b>	6
<b>WMX 503 / 504 / 523 / 526-4</b>	4
<b>WMX 803 / 804 / 813 / 814 / 823 / 826-1</b>	3
<b>WMX 803 / 804 / 813 / 814 / 823 / 826-2</b>	2
<b>WMX 803 / 804 / 813 / 814 / 823 / 826-3</b>	3
<b>WML 820 / 825</b>	3
<b>WML 860-1</b>	3

<b>WML 860-2</b>	2
<b>WML 860-3</b>	3
<b>WMB 801 / 802</b>	3
<b>WMB 811 / 812 / 815/ 816 / 817 / 818 *</b>	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 81,6, or 1 x WMB 817 and 1 x WMB 818	


## motor controller

Variants	Item number
MotorController 3A	WCC 103 010x
MotorController 3A, UK version	WCC 103 040x

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

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## Documents / Resources

	<a href="#">WINDOWMASTER WCC 103 Motor Controller</a> [pdf] Instruction Manual WCC 103 Motor Controller, WCC 103, Motor Controller, Controller
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## References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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