

WUC160 / 161

# COMFORT CONTROL 4-ZONE 16A



## Description

- for 24 VDC window actuators
- 4 / 8 ventilation groups each off 4A, but with a max. total current consumption up to 16A
- can be combined with external temperature sensor, timer or BMS
- wind-/rain sensor connectable
- the motor outputs can be operated individually or simultaneously

The central control unit is used for the operation of 24 VDC actuators with a total current consumption of max. 16A.

The central control unit is available in several versions:

- WUC 160 040A – 16A in 4 actuator groups
- WUC 161 040A – 16A in 4 actuator groups
- WUC 160 080B – 16A in 8 actuator groups (2 x 4)
- WUC 161 080B – 16A in 8 actuator groups (2 x 4)

Actuator and power supply cables are easily and fast connected to the MotorController. The cable access can be made from the side or from underneath the MotorController, which can be mounted vertically or horizontally on the wall.

The actuator outputs are independent and have three levels of priority for the control of window actuators:

Input 1 (first priority):

Common OPEN/CLOSE function for 4 / 8 outputs (without self-hold)

Input 2 (second priority):

Individual OPEN/CLOSE function for each actuator group. For connection of double potential free switches (e.g. sensors) for individual control of each actuator group (without self-hold)

Input 3 (third priority):

Individual OPEN/CLOSE function for each actuator group. For connection of double potential free switches (e.g. keypads) for individual control of each actuator group. (Option: with or without self-hold).

By connection of sensors auxiliary power from the built-in 24 VDC 0.3A power supply is to be used.

The switch contacts must be potential free.

- comfort ventilation in 4 / 8 groups – total max. of 16A, however max. 4A per group
- 3 potential free inputs (OPEN/CLOSE) with priority with the possibility of connecting wind- / rain sensor, timer, thermostat and keypads

# COMFORT CONTROL 4-ZONE 16A

Specifications			
Primary voltage	230 VAC $\pm$ 10%, 500VA, 50Hz		
Secondary voltage	24 VDC, up to 4A per actuator output, max. 16A current consumption.		
Inrush current	max. 20A < 5msec		
Standby consumption	ca. 5W		
Ripple	10% (5Vpp)		
Open circuit voltage	WUC 160: 33V by 253V WUC 161: 30V by 253V		
Connection	primary side: screw joints up to: 4 mm <sup>2</sup> flexible cable 6 mm <sup>2</sup> solid cable		
	secondary side: screw joints up to:	keypads	actuators
		1.5 mm <sup>2</sup> flexible cable	4 mm <sup>2</sup> flexible cable
	2.5 mm <sup>2</sup> solid cable	6 mm <sup>2</sup> solid cable	
Operating condition	-5°C - +45°C, for indoor installation, the control system may not be covered		
Material	steel cabinet, laquered		
Colour	white (RAL 9010)		
Size	88 x 455 x 240mm (H x W x D)		
Weight	7.5kg		
IP rating	IP20		
Note	we reserve the right to make technical changes.		

Items	Item no.
Control unit with 4 outputs a 4A, max. 16A total (up to 4 zones) (for actuators type WMX, WMB, WMS actuators and WMU, but not WMU 100)	WUC 160 040A
Control unit WUC with 8 outputs a 4A, max. 16A total (up to 8 zones) (for actuators type WMX, WMB, WMS actuators and WMU, but not WMU 100)	WUC 160 080B
Control unit with 4 outputs a 4A, max. 16A total (up to 4 zones) (for actuators type WMI 101, WMX, WMB, WMS and WMU, also WMU 100)	WUC 161 040A
Control unit WUC with 8 outputs a 4A, max. 16A total (up to 8 zones) (for actuators type WMI 101, WMX, WMB, WMS and WMU, also WMU 100)	WUC 161 080B

Accessories	Item no.
Ventilation push-button, flush mounting	WSK 100 1161
Room thermostat	WLA 110
Timer 230 VAC (wall mounting surround WLA 122 to be ordered separately)	WLA 120
Rain and wind sensor	WLA 330
Rain sensor	WLA 331

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WindowMaster actuators n=actuator variant	Max. number of window actuators which can be connected			
	Secondary voltage: high (standard) (max. 30V)		Secondary voltage: low (max. 27V)	
	WUC 160 040A	WUC 160 080B	WUC 161 040A	WUC 161 080B
WMX 802/804/820/824-n***	16	32**	16	32**
WMU 836-n***	8	16	8	16
WMU 861-n***	8	32**	16	32**
WMU 862-n***	8	16	8	16
WMU 863-n***	4	8	4	8
WMU 864-n***	1	2	1	2
WMU 866	12	24**	8	24**
WMU 866***	8	16	8	16
WMU 882-n***	8	16	8	16
WMU 883/884-n***	4	8	4	8
WMU 100	*	*	16	32**
WMU 120	8	16	8	16
WMS 306-n	16	32**	16	32**
WMS 309-n	16	32**	16	32**
WMS 409-n	8	16	8	16
WMS 515	*	*	*	*
WMI 101	*	*	16	32**
WML 825	16	32**	16	32**

\* the actuator is not suitable for this control unit

\*\* the max current consumption of 16A is not to be exceeded meaning that all actuators are not to run at the same time  
(see actuator product sheet for current consumption)

\*\*\*besides the window actuators up to two espagnolettes actuators WMB/WMB-n (single or double) can be connected to one window