C230 CONTROL UNIT

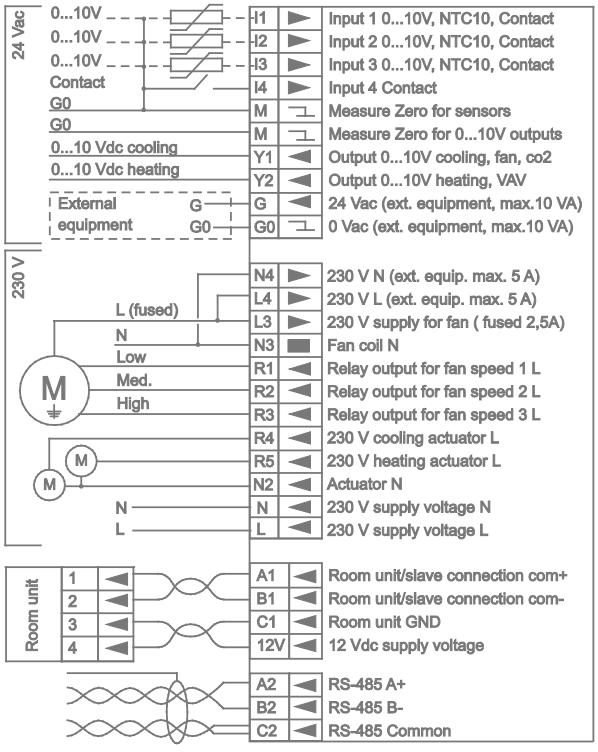
C230 is a versatile control unit specifically designed for individual room temperature, fan coils, VAV and zone control applications. The control unit can be connected to systems that support Modbus RTU protocol (RS-485). The bus is galvanically isolated from the controller's other electronics. Bus end termination and polarisation are built in and can be activated with jumpers, and the Modbus address can be changed with dip switches.

The control unit settings and output functions can be changed by using the buttons and display on room unit E202 or a configuration unit H203. The controller has two programmable 230 Vac, two 0…10 Vdc outputs and three relays for fan speed control or damper actuators.

Temperature is detected with an internal sensor on a room unit or external NTC10 sensor. The controller input functions can be set for 0…10 V temperature, CO_2, or set point, and external temperature sensor, occupancy sensor, condensation sensor and external switch for operation mode control. The control unit has day, night and save operating modes.

The control unit can be mounted hidden in a fan coil unit or above a false ceiling.

Wiring



Technical data

Supply	230 Vac (207…257 V), < 10 VA
Set point	19…25 °C
Dead zone	in day mode 1 K in night mode 4 K in save mode 8 K
Proportional band	heating 1,5 K cooling 1 K
Integration time	20 minutes
Inputs	3 x 0…10 Vdc, resistive or contact/switch functions 1 x contact/switch for operation mode selection
Outputs	2 x 230 Vac, 400 mA 2 x 0…10 V, 10 mA 3 x relays for fan coils 2,5 A 24 Vac, 10 VA transformer output for external equipment. 230 Vac, 2,5 A output for external equipment.
Input inaccuracy	<0.5 V
Operating conditions	
temperature	0…50 °C
humidity	0…85 % RH (non cond.)
Wiring terminals	1,5 mm^2
Housing	ABS/PC plastic, IP20
Dimensions (w x h x d)	200 x 120 x 53 mm

Ordering guide:

Model	Product number	Description
C230	1155110	control unit
H203	1155051	configuration tool

Products fulfill the requirements of directives 2004/108/EC and are in accordance with the standards EN61000-6-3 (Emission), EN61000-6-2 (Immunity)

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