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DATA SHEET

C221-01

Produal

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C221 CONTROL UNIT

C221 is a versatile control unit specifically designed for individual room temperature, VAV and zone control applications. The control unit can be connected to any system that supports Modbus RTU protocol by using the RS-485 connection. The bus is galvanically isolated from the controller's other electronics. Bus end termination and polarisation are built in and can be activated with dip switches.

The control unit settings and output functions can be changed by using the buttons and display on room unit E201/E202 or a configuration unit H203.

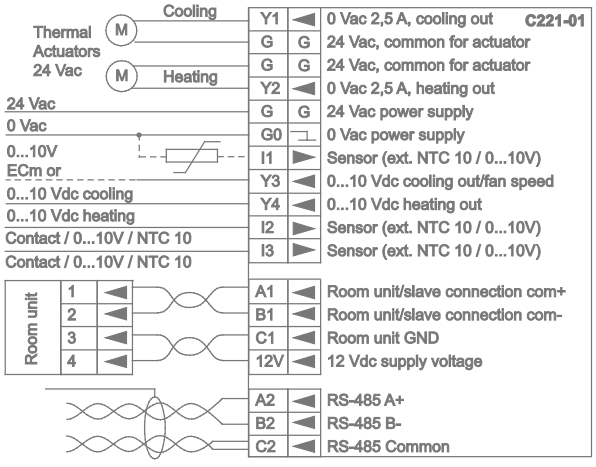
The controller has two programmable 24 Vac and two 0…10 Vdc outputs. One 0…10 V output has functions for EC motor or FCRY 3 relay fan speed control. The 0…10 Vdc output can be set to continuous control or with 3 different voltages.

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 also 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 operating modes can be controlled by an external card switch or PIR occupancy detector.

Control unit can be used in dry surroundings mounted in a fan coil unit or above the ceiling.

Wiring:





Technical data:

Supply	24 Vac (22…26 V), < 2 VA
Set point	19…25 °C
Accuracy (measuring inaccuracy)	±0.5 °C
Dead zone	
day mode	1 °C
night mode	4 °C
save mode	8 °C
Proportional band	
heating	1,5 °C
cooling	1 °C
Integration time	20 minutes
Outputs	2 x 24 Vac, 2 A (max 2 A of total load for both) 2 x 0…10 Vdc, 10 mA
Inputs	3 x 0…10 Vdc, resistive or contact/switch functions
Operating conditions	
temperature	5…40 °C
humidity	0...85 % rH (non-cond.)
Wiring terminals	1,5 mm², jackable
Housing	ABS plastic, IP44
Dimensions (w x h x d)	80 x 122 x 40 mm

Ordering guide:

Model	Product number	Description
C221-01	1155050	Control unit

Products fullfil the requirements of directives 2006/95/EC and 2004/108/EC and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).

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