

FAN COIL CONTROLLER

PRODUCT DESCRIPTION



Fan coil controller C2.FCC.03 is a universal FCU controller designed for usage in two-pipe applications.

Primary communication channel is used for communication with BMS and supports BACnet and Modbus protocols. Secondary communication channel can be used for communication with local room display unit.

Full programmability and a multiple number of I/O enables the usage of the device not only for various types of FCUs but for other applications as well.

Programming is done in functional block diagram language using jPLCPro IDE.

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS	
Power supply	Main:230 VAC ±10%, 50 Hz, 15 W max. Primary communication (optional)
COMMUNICATION CHANNEL	
RS 485 primary port	BACnet MS/TP or Modbus Slave RTU/ASCII. Programmable baud rate (9600, 19200, 38400, 76800, 115200). Auxiliary power supply 24 VDC***
RS 485 expansion port	Modbus Master RTU. Programmable baud rate (9600, 19200, 38400, 76800, 115200) and parity. Power supply output: 20 VDC, 100 mA
USB mini	Service port for programming and parametrization
INPUTS	
Binary inputs	4 potential free inputs
Analog inputs	2 x NTC temperature probe: 10K, 12K, 15K and 20K supported
OUTPUTS	
Binary outputs	3 relays 16 A for fan control* 2 relays 16 A for valve or compressor control**
Valve outputs	0-10 VDC Modulated OP-CL triac, 24 VAC, 6 W valves
ADDITIONAL SPECIFICATIONS	
Operating temperature	10.. +55 °C
Storage temperature	-40.. +85 °C
Operating humidity	Max 95% r.H., no condensation
Protection degree	IP20
Mounting	DIN rail, for indoor use only
Dimensions	161.6x90x62.2 mm
Weight	600 g

* Only one fan speed relay can be active at the time

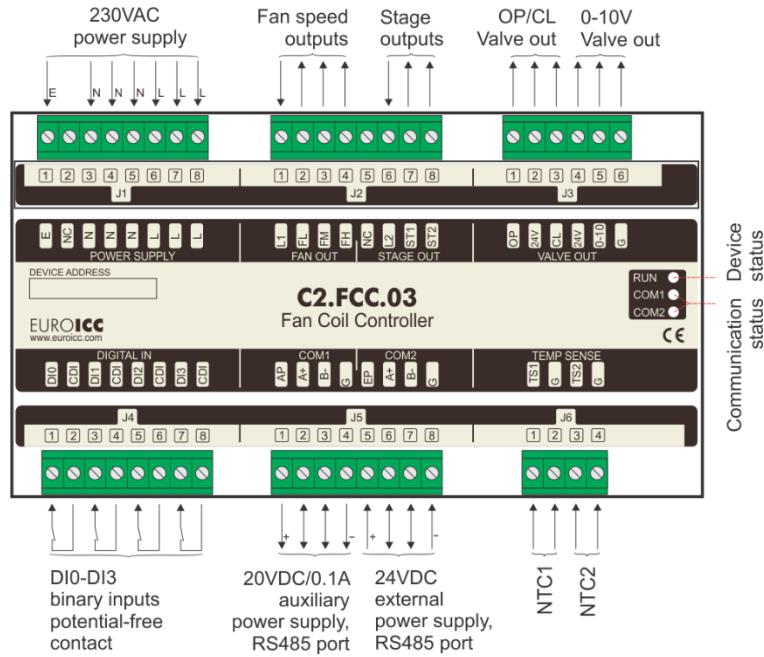
** If one stage relay is active at one time maximal current is 16A, if two stage relays are active at one time sum of both currents must not exceed 20A and current through one relay must not be greater than 16A

*** When device is powered only from auxiliary power supply I/O functionality is disabled

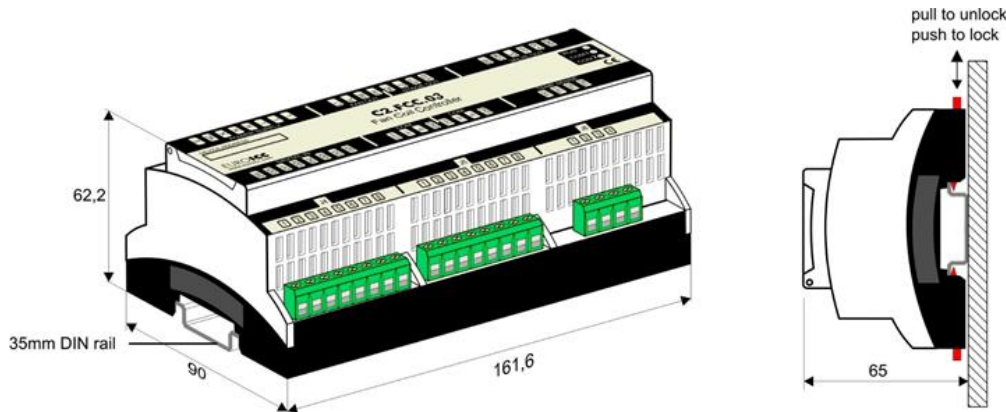
PRODUCT FEATURES

- » Programming is done using PC application
- » Configuration, programming and debugging through USB port
- » Multiple communication protocols available (Modbus, BACnet)
- » High level of flexibility thanks to a wide range of IO resources and programmability
- » Resource sharing between controllers in case of BACnet communication. Data sharing is performed without intervention of the supervisory system
- » Stand alone operation option

WIRING AND RESOURCES



DIMENSIONS AND MOUNTING



SAFETY NOTES



- The device is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- It may only be installed by suitably trained personnel.
- Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.