FUNCTIONAL CONTROLLER

PRODUCT DESCRIPTION

BACnet programmable functional controller C2.FNC.33 is designed for a wide range of tasks in building automation.

Numerous inputs and outputs enable controllers to be used in many applications in building automation while its BACnet connectivity enables seamless integration in Building Management System.

The device can perform applications such as:

- Air handling unit controller
- Roof controller
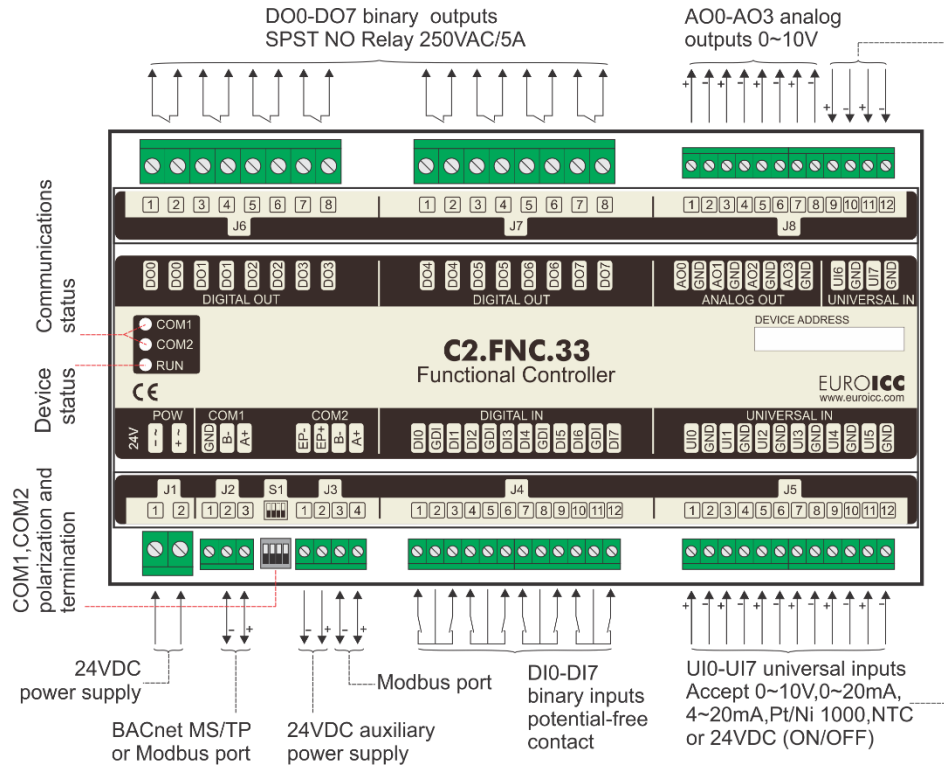- Office controller
- Room controller Modbus network

TEHNICAL DATA

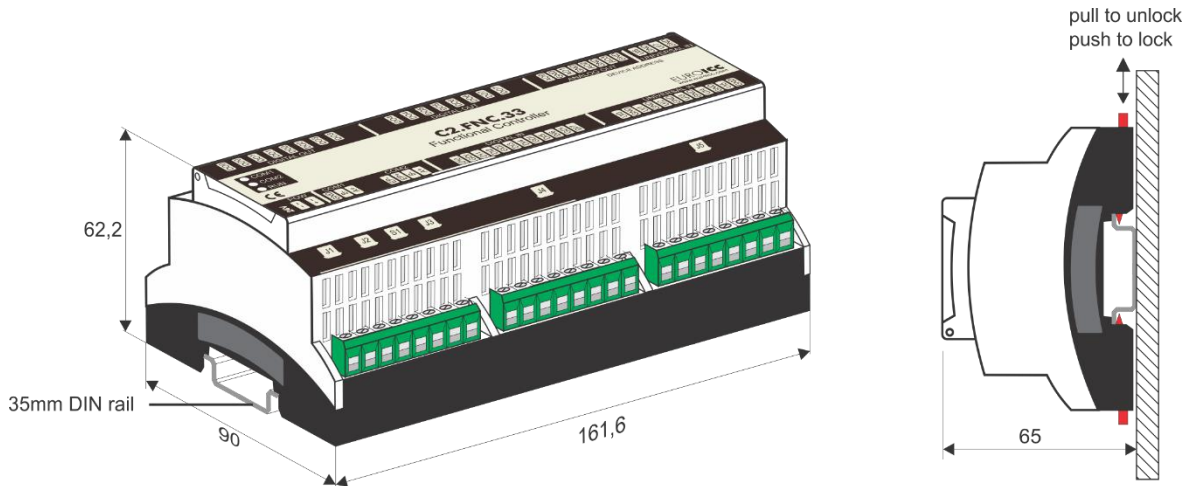| ELECTRICAL SPECIFICATIONS	
Power supply	24 VDC, 6 W
COMMUNICATION CHANEL	
RS 485 primary port	BACnet MS/TP or Modbus Slave RTU/ASCII. Programmable baud rate (9600, 19200, 38400, 76800, 115200), DIP switch selectable use of termination and polarization resistors
RS 485 expansion port	Modbus Master RTU. Programmable baud rate (9600, 19200, 38400, 76800, 115200) and parity. DIP switch selectable use of termination resistor. Power supply output: 20 VDC, 100 mA
USB	USB device, mini USB connector, service port
INPUTS	
Potential-free inputs	8
Universal inputs	8
OUTPUTS	
Independent NO relays, 250 VAC/5 A	8
Voltage outputs	4
ADDITIONAL SPECIFICATIONS	
Operating temperature	0.. +55 °C
Storage temperature	-30.. +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	350 g

PRODUCT FEATURES

- » Possibility to store operating plans in non-volatile memory
- » Programming is done using PC application
- » Configuration, programming and debugging through USB port
- » Resource sharing between controllers through BACnet network. Data sharing is performed without intervention of the supervisory system
- » RTC (real-time clock) with auxiliary power supply
- » Stand alone operation option
- » DIP switch selectable standard polarization and termination resistors on primary communication port
- » Modbus master expansion port with DIP switch selectable termination resistor and power supply output

WIRING AND RESOURCES

DO0-DO7 binary outputs
SPST NO Relay 250VAC/5A

AO0-AO3 analog
outputs 0~10V

24VDC
power supply

BACnet MS/TP
or Modbus port

24VDC auxiliary
power supply

Modbus port

DI0-DI7
binary inputs
potential-free
contact

UI0-UI7 universal inputs
Accept 0~10V,0~20mA,
4~20mA,Pt/Ni 1000,NTC
or 24VDC (ON/OFF)

Communications status

Device status

COM1,COM2 polarization and termination

DIMENSIONS AND MOUNTING

62,2

35mm DIN rail

90

161,6

pull to unlock
push to lock

65

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.