

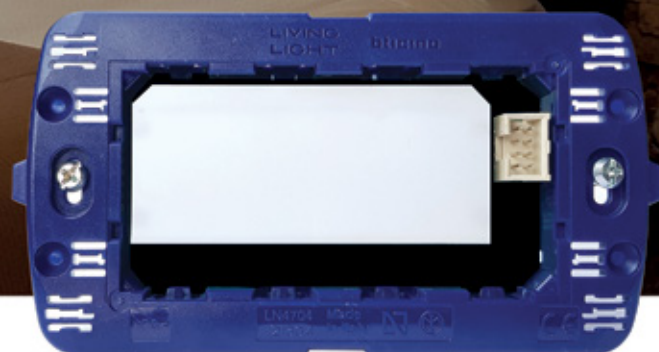


Fan-coil controller for efficient climate management

The **e-Bus Controller** coupler is a room controller with analog/digital inputs and outputs for the touch panel e-Touch Display, available with different communication protocols for remote room management, or to operate in stand-alone mode with no communication bus. The controller allows a room energy consumption optimization through its digital inputs, which are connected to a keycard reader or the combination between motion sensors and a door contact, to detect the room occupancy state and manage the climate control to switch it to economy mode when the room becomes unoccupied, or stop the climate system when the window is opened. Different models of e-Bus Controller are available and can be selected depending on the climate system used in the building, like water pipes systems and EC fan-coils with analog 0-10V control or standard 3 fan-coil speeds. One model for VRF Panasonic indoor units is also available and provides an easy integration solution for these kind of applications.

e-Bus Display is a model version with no inputs/outputs, but including communication interface to communicate with any other device through a Modbus RTU interface.

The controllers family is available in different models depending on the communication protocol requested, to choose between LonWorks, BACnet/IP over FT, Modbus RS-485 or stand-alone (no communication).



BD.670002-011

Bus coupler for e-Touch Display

e-Bus Controller model with I/O for room automation

e-Bus Display model without I/O

Communication bus for remote management

Modbus RTU, BACnet/IP-FT, LonWorks

DATASHEET

Compact controller with I/O for fan-coil control

Product concept

- e-Bus Display: Model with display and without Inputs/Outputs
- e-Bus Controller Stand-Alone: Controller with I/O and stand-alone operation
- e-Bus Controller BMS: Controller with I/O and BMS communication protocol

Possible combinations

- Compact flush mounted device: e-Touch Display + e-Bus Controller
 - Fan-Coil EC 0-10V
 - Fan-Coil 3 Speed

Specifications

- Supply power: 24Vdc
- Stand alone or with communication interface
- Modbus RTU, LonWorks, BACnet/IP-TP
- Digital inputs (contact type):
 - Keycard / Motion sensor
 - Window contact
- Digital/analog inputs (NTC 10K)
 - Water temperature (Heat/Cool) /
 - Door contact
 - External temperature sensor
- Analog output Fan-Coil EC 0-10V (model ECO)
- Relay outputs (5 A):
 - Fan-Coil 3 speed
 - Heat-Cool valve / Cool valve (2P / 4P)
- Flush mounted in 504E enclosure

Ordering numbers

Display Models

BD.470001-011 e-Bus Display RS-485
Coupler RS-485 for e-Room Modular

BD.470002-011 e-Bus Display Modbus
Coupler RS-485 with Modbus RTU protocol

Ordering numbers

Controller models

RT.600321-011
e-Bus Thermo ECO Stand-Alone
Communication: Not available
1 output fan-coil EC 0-10V, 2 relay outputs: valves

RT.670321-011
e-Bus Thermo ECO Modbus
Communication: RS-485, Modbus RTU
1 output fan-coil EC 0-10V, 2 relay outputs: valves

RT.604421-011
e-Bus Controller ECO 4I/4O Stand-Alone
Communication: Not available
Inputs: Keycard, Window, Motion sensor, Temp. sensor
1 output fan-coil EC 0-10V, 3 relay outputs: 2 valves, 1 aux.

RT.674421-011
e-Bus Controller ECO 4I/4O Modbus
Communication: RS-485, Modbus RTU
Inputs: Keycard, Window, Motion sensor, Temp. sensor
1 Output fan-coil EC 0-10V, 3 relay outputs: 2 valves, 1 aux.

RT.624421-011
e-Bus Controller ECO 4I/4O TP/FT-10
Communication: LonWorks TP/FT-10, BACnet/IP over TP
Inputs: Keycard, Window, Motion sensor, Temp. sensor
1 Output fan-coil EC 0-10V, 3 relay outputs: 2 valves, 1 aux.

NOTE: Ask for 3 fan-coil speed models.



0-10V



LONMARK[®]

e-Bus Controller, e-Bus Display

Mounting mechanism of e-Touch Display with e-Bus Controller or e-Bus Display



More efficient
UNE-EN 15232

