

Electronic microprocessor controller with remote user interface EVO



ERGO
Supervision



BUS communi-
cation



DIGITAL
IN/OUT
External devices
management

Intuitive and user-friendly multi-purpose regulator

EVO encompasses the best of Galletti adjustment with regard to hydronic indoor units.

The EVO software, which was developed entirely by Galletti's Technical Department, consists of two distinct parts in two microprocessors. The first of these, resident on the power board, manages the monitoring of the parameters and the adjustment logics. The second part of the software, which is loaded on the user interface microprocessor, guarantees true communication, by means of which the installer and the user are guided in the configuration and use of the controller.

If on-board installation of the power board is requested, which is an option that is available for the majority of Galletti hydronic indoor units, during the wiring phase you just need to connect the user interface using a two-core shielded cable. This extraordinary simplicity cuts installation time and costs in half.

The EVO controller has been designed to govern the operation of Galletti indoor units with single-phase multispeed asynchronous motor or modulating speed BLDC motors. Specifically, its advanced technology makes it possible to establish control networks that are suited to meet any need, for automatic and intelligent management of the system's indoor units.

PLUS

- ✓ Considerable savings in the installation phase
- ✓ User-friendly interface
- ✓ RS485 and OC serial communication
- ✓ Advanced de-humidifying function
- ✓ Simultaneous control of 3 modulating devices
- ✓ Advanced control of time schedules



ACCESSORIES

EYMCSWE NTC air and water sensor

EYMCSUE Humidity sensor

UYIPM Power interface for currents greater than 5 A



FUNCTIONS

Automatic control of time slots

The user interface makes it possible to set the ON/OFF status of the control and the desired setpoint, on an hourly basis, for the different days of the week. If the above-mentioned operating parameters are set on a master unit, they can be replicated on all the connected slaves.



Modulating devices control

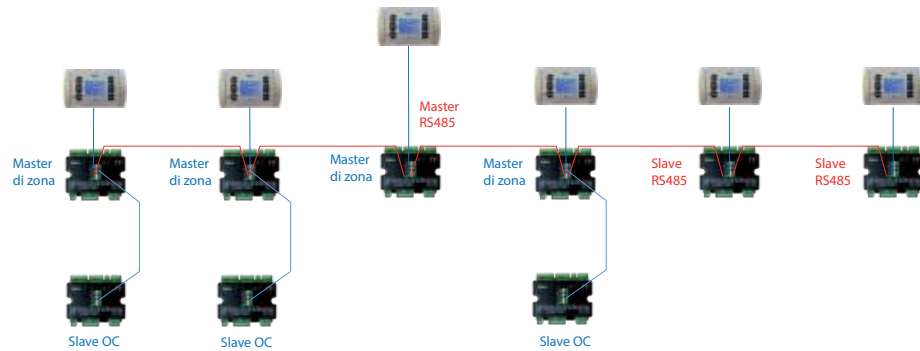
EVO is capable of simultaneously controlling up to two modulating valves and one BLDC fan, making it possible to vary the air flow rate and the water flow rate in the heat exchanger, adapting to the thermal load.

Humidity control

EVO offers the possibility of automatically activating a dehumidification process depending on the relative humidity and a settable setpoint. This function requires a humidity sensor that is available as an accessory.

Serial Communication

The controller has serial ports for RS485 communication and power-line communication that allow the development of control networks that are adequate for every need.



CONNECTIVITY

By combining digital outputs and inputs present on EVO, it is possible to develop synergetic solutions with other system components.



Remote activation of heat recovery units

The heat recovery units are essential for maintaining good ventilation in the rooms, especially during periods with high occupancy. With EVO it is possible to set a series of weekly time slots that take into account the effective occupancy of the rooms. The activation of indoor units in those zones will be managed concurrently with the activation of the heat recovery units. This makes it possible to combine good air quality, temperature and humidity comfort, and considerable energy savings by deactivating all the systems when they are not necessary.

“Economy”

A typical need in hotel rooms and in other rooms with variable occupancy is the management of air conditioning with reduced operation when the user is not present. This solution, which is often accomplished by means of occupancy sensors or magnetic readers, guarantees considerable energy savings, but requires the possibility to force the fan coil unit to operate in Economy mode in a simple and effective manner. This is all possible with EVO, which has 3 pre-configured digital inputs for ON/OFF, Economy mode, and remote summer/winter switchover.

Centralized adjustment of hydronic indoor units and radiant panels

EVO integrates perfectly with hybrid systems that include fan coil units and radiant systems. Retaining the typical adjustment dynamics of a fan coil system or operating in the innovative dehumidification mode, EVO is able to concurrently control the ON/OFF solenoid valves for the thermostatic adjustment of the radiant panels.

Activation of external dehumidifier / humidifier

This control implements the humidity control function in relation to a settable setpoint. By connecting the appropriate sensor to the control it is possible to not only vary the fan coil unit's adjustment dynamics, but also manage the calls to external devices such as humidifiers and dehumidifiers.