Electronic microprocessor controller with LCD display

MYCOMFORT

ERGO Supervision | BUS communi-cation | External devices management

Three different proposals for a customized level of comfort

Climate control becomes fast and simple: interior comfort conditions can be controlled thanks to the new MYCOMFORT control panels, the connection node of Galletti integrated systems.
The microprocessor control panel allows you to set the operating mode of the indoor hydronic units in such a way as to achieve conditions of interior comfort and complete control over the air conditioning system.
The controller features a large-sized liquid crystal display with incorporated keypad for setting and reading environmental parameters and the operating parameters of the indoor unit connected to it.
There is a vast choice of accessories available, which allow either wall mounting or installation on board the indoor unit.

PLUS

- Three versions depending on the customer's requirements
- Large display
- User-friendly interface
- Wall mounted or on-board installation
- Easy connection and startup

AVAILABLE VERSIONS

BASE
Temperature-based control of fan coil (4 fan speeds) unit and regulating valves.

MEDIUM
Control of fan coil unit (4 fan speeds) and valves based on temperature and humidity, connection to ERGO systems, setting up of small networks in slave mode.

LARGE
Control of fan coil unit (4 fan speeds) and regulating valves based on temperature, humidity, weekly timer, connection to ERGO systems, setting up of small networks in master mode, backlit display, control of modulating devices (valves, BLDC motors).

COMPONENTS

Shell

The outer shell is made of ABS that has been UV treated to retain the original colour over time. Its pleasant design makes it suitable for high-grade installations in sophisticated environments.

Display

3" are available to the user to clearly view all the data of interest for efficient adjustment. The use of intuitive pictograms to represent all the functions makes it highly user friendly.

Terminal board

MYCOMFORT features quick-connect terminals which enable hassle-free wiring. Programming of the functions and address is simplified as it can be done directly from the keypad and display.

FUNCTIONS

Control and savings

Automatic control of the unit's cooling and heating functions according to air and water temperatures.

Real comfort

MYCOMFORT can control and maintain comfort in terms of both temperature and humidity thanks to the presence of a sensor which measures ambient humidity and enables dehumidification cycles to be carried out by acting on valves, ventilation and the water set-point.

Management of accessories and external devices

This controller allows the management of both ON/OFF and modulating 2- and 3-way valves, and in addition it is possible to manage external devices such as chillers, boilers, and zone valves. It is performed by means of no-voltage ON/OFF contacts, depending on the environmental parameters.

Supervision

This controller can be integrated with the ERGO software monitoring system, by means of the RS485 bus connection, from which it is possible to display all the functions and access to the MYCOMFORT programming menu.

MYCOMFORT Functions

	Base	Medium	Large
4-speed fan control	✔	✔	✔
ON/OFF valve control	✔	✔	✔
ON/OFF via external enable signals / digital inputs	✔	✔	✔
External devices/digital outputs ON/OFF			✔
Air temperature sensor	✔	✔	✔
Water temperature sensor	✔	✔	✔
Air humidity sensor		✔	✔
BUS/RS485 connection		✔	✔
Modulating valves/0-10V outputs control			✔
Inverter fans/0-10V outputs control			✔
Weekly clock			✔
Backlit display			✔

ACCESSORIES

KB2X1E	2X1 on-board installation kit	**DIST**	MYCOMFORT controller spacer for wall mounting
KBESTE	ESTRO on-board installation kit	**MCSWE**	Water sensor for BASE, MEDIUM and LARGE versions
KBFLAE	FLAT on-board installation kit	**MCSUE**	Remote humidity sensor for MEDIUM and LARGE versions

Electronic microprocessor controller with remote user interface

EVO

ERGO Supervision | BUS communication | 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

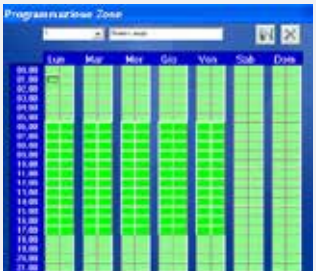
ACCESSORIES

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

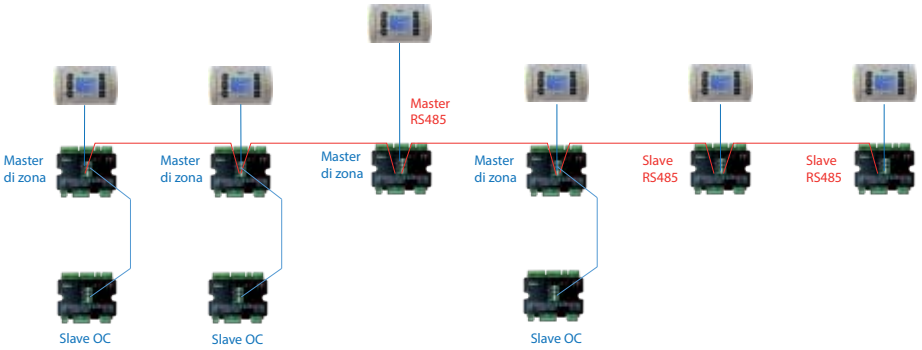
EVO is capable of simultaneously controlling up to two modulating valves and one BLDC fan, making it possible to vary the air flow rate and the water flow rate in the heat exchanger, adapting to the thermal load.

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

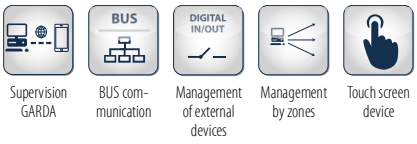
EVO integrates perfectly with hybrid systems that include fan coil units and radiant systems. Retaining the typical adjustment dynamics of a fan coil system or operating in the innovative dehumidification mode, EVO is able to concurrently control the ON/OFF solenoid valves for the thermostatic adjustment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

Electronic microprocessor control

EVO



Supervision GARDA | BUS communication | Management of external devices | Management by zones | Touch screen device

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 EC 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
- LCD display or touch screen

Multi-interface control
EVO is characterized by the possibility of combining the power module with different types of interfaces, adopting each time the best solution for different installation needs.
If an interface is not required, the unit can be directly connected to one's smartphone using the Galletti app (after pre-configuring the circuit board).

Split solution
The separation between power elements and graphic interface is a very practical solution from the point of view of installation, with the advantage of supplying low voltage to the interface in contact with the user and using a single cable for both power supply and information exchange between the two devices. This considerably reduces the length and cost of the cables to be laid, thus avoiding any additional cost for the end user.

ACCESSORIES

Elecromechanical control panels	
IPM	Circuit board for connection of UTN 30-30A-40-40A to control panels.
Electronic microprocessor control panels with display	

MCSUE	Humidity sensor for MY COMFORT (medium e large), EVO
MCSWE	Water sensor for MYCOMFORT and EVO controllers

Touch screen display interface

EVO-2-TOUCH

to combined with EVOBOARD

PLUS

- 2.8'' capacitive touch screen display
- Integrated temperature and humidity probe
- Low-voltage power supply drawn from the power component
- Wall mounted or ART-U on-board installation
- Designed for the main electrical connection boxes
- User-friendly
- Aluminium foil and polyethylene frame with various chrome plating options

FEATURES

Intelligent interface
The various screens are designed to make human-machine communication intuitive. Each page contains a few essential items of information that allow the consultation of the unit's main operating parameters and enable the initial control configuration according to system requirements.

Smart touch
Touch screen technology is another element whose goal is to simplify the user experience. The tap and swipe functions make the control experience similar to that of your smartphone.

INSTALLATION

Installation procedures
The touch screen interface can be installed in the ART-U series in combination with the EVO BOARD circuit board, integrating all the advanced functions of EVO with a strongly design-oriented product. The different colour combinations of the frame, combined with the different versions of the cover panel of the ART-U series, allow considerable freedom of customisation. If envisaged to be combined with other series of fan coil units, the preparation for the main standard electrical boxes allows easy mounting on the wall. In this case the clips positioned at both ends of the containment box allow the correct reading of the room temperature by the sensor integrated in the control electronics

COLOUR OPTIONS

Customisable frame
The external frame of the interface is available in four different chrome plating options and is made with double aluminium foil and a poly-ethylene core. The available colours are white, black, grey, and red, and allow the ideal combination with the versions of the ART-U series. In the case of wall mounting, the various solutions represent a good range of choice for determining the best match with the style of the structure to be air-conditioned.

FUNCTIONS

"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.

Lock function
On all the interfaces that can be combined with the EVO BOARD circuit board, it is possible to force the locking of the control functions in order to avoid unwanted changes to the fan coil unit's operating and configuration parameters. This function is activated with a keyboard shortcut or by entering passwords depending on the interface chosen.

Configurable digital output
EVO is equipped with a fully configurable digital output that allows the control to provide important information to external devices, such as the cooling and/or heating demand, the operating mode, and the possible presence of an alarm.

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.

Recess wall-mounted control panel

LED503

Remote management | 2-pipe system | 4-pipe system

PLUS

- Complete management of indoor units for 2- or 4-pipe systems
- Intuitive use
- Large LED display for ease of visualization
- Can be installed in a 503 socket box

Simplicity and elegance for the management of water system indoor units

The proposed microprocessor control panels for Galletti indoor units is completed by the LED503 command with LED display that is designed for recess wall mounting or mounting on the Estro series fan coils. LED503 includes an advanced software program developed internally by Galletti's R&D department focusing on ease of use and simplicity of installation and programming.
LED503 makes it possible to control up to 4 fan speeds, automatically or manually, together with the management of 2- or 3-way valves in 2- or 4-pipe air conditioning systems.
Due to the presence of a configurable digital input it can easily be remotely interfaced to centralize specific functions such as seasonal switchover of the operating mode, activation of the economy mode, or simply turning it on or off.
The proportional adjustment algorithm automatically adjusts the fan speed depending on the value of the difference between the ambient temperature and the set setpoint and allows precise adjustment of the room conditions.
The water sensor, which can be installed as an accessory, is used to verify that the temperature of the heat transfer fluid is always at an optimal level and compatible with the active operating mode.
The seasonal switchover can be made automatic depending on the air or water temperature, making this controller the perfect tool for applications in both the residential sector and the commercial or hotel sector.
LED503 can be easily integrated in the room to be air conditioned due to the option to choose between three different frames:
- plate, color black RAL9005
- plate, color gray RAL9003
- plate, color white RAL7031

Alternatively it is also possible to use commercial plates of the Idea and Rondò series in the Vimar catalogue.

ACCESSORIES

EYKL	On-board installation kit for ESTRO
EYCOB	Plate for LED503 - RAL9005 black
EYCOG	Plate for LED503 - RAL9003 grey
EYCOW	Plate for LED503 - RAL7031 white
UYIPM	Power interface for currents greater than 5 A
EYKP	Power interface for connecting up to 4 fan coils to one controller

Simplified electronic controller

TED

2 pipes systems

4 pipes systems

A series of three easy and efficient controllers

The three versions of the new electronic device TED, are Galletti answer to the demand of a simple and flexible controller suitable to the different plant needs.
The assignment of the operating conditions is intuitive and easy-applicable, and the supplied accessories allow the installation on board in addition to the classical on wall.
The controller is moreover equipped in all versions with dedicated contacts for both air and water probes. In this latter case it is therefore possible to consent ventilation only if water temperature is adequate to the normal operating condition.

PLUS

- Three versions depending on plant and terminal units
- Easy application
- Wall mounted or on-board installation
- Units supplied with BLDC electric motor supported (only 0-10 V version)

AVAILABLE VERSIONS

TED2T
- It supports terminal units equipped with asynchronous electric motor in 2 pipes plants
- ON/OFF valve supported
- Water consent on the basis of temperature

TED4T
- It supports terminal units equipped with asynchronous electric motor in 4 pipes plants
- Two ON/OFF valves supported
- Seasonal manual or automatic switch (on the basis of air temperature)
- Water consent on the basis of temperature

TED10
- It supports terminal units equipped with BLDC electric motor thanks to its internal 0-10 V signal generator
- Suitable for both 2 or 4 pipes plants
- Manual or automatic speed adjustment mode
- Water consent on the basis of temperature

ACCESSORIES

Electronic microprocessor control panels	
KB A	On-board ESTRO FA installation kit suitable for TED controller
KB F	On-board FLAT/FLAT S installation kit suitable for TED controller
KB L DX	On-board ESTRO FL/FU/FB installation kit on the right side suitable for TED controller
KB L SX	On-board ESTRO FL/FU/FB installation kit on the left side suitable for TED controller
TED SWA	Water temperature sensor for TED controls

Simplified electronic controller

TED

2 pipes systems

4 pipes systems

A series of three easy and efficient controllers

The three versions of the new electronic device TED, are Galletti answer to the demand of a simple and flexible controller suitable to the different plant needs.
The assignment of the operating conditions is intuitive and easy-applicable, and the supplied accessories allow the installation on board in addition to the classical on wall.
The controller is moreover equipped in all versions with dedicated contacts for both air and water probes. In this latter case it is therefore possible to consent ventilation only if water temperature is adequate to the normal operating condition.

PLUS

- Three versions depending on plant and terminal units
- Easy application
- Wall mounted or on-board installation
- Units supplied with BLDC electric motor supported (only 0-10 V version)

AVAILABLE VERSIONS

TED2T
- It supports terminal units equipped with asynchronous electric motor in 2 pipes plants
- ON/OFF valve supported
- Water consent on the basis of temperature

TED4T
- It supports terminal units equipped with asynchronous electric motor in 4 pipes plants
- Two ON/OFF valves supported
- Seasonal manual or automatic switch (on the basis of air temperature)
- Water consent on the basis of temperature

TED10
- It supports terminal units equipped with BLDC electric motor thanks to its internal 0-10 V signal generator
- Suitable for both 2 or 4 pipes plants
- Manual or automatic speed adjustment mode
- Water consent on the basis of temperature

ACCESSORIES

Electronic microprocessor control panels	
KB A	On-board ESTRO FA installation kit suitable for TED controller
KB F	On-board FLAT/FLAT S installation kit suitable for TED controller
KB L DX	On-board ESTRO FL/FU/FB installation kit on the right side suitable for TED controller
KB L SX	On-board ESTRO FL/FU/FB installation kit on the left side suitable for TED controller
TED SWA	Water temperature sensor for TED controls