



PLUS CONTROLLER

Dinamic Control Technology



WARRANTY
3
YEARS

PLUG&
PLAY

FULL
GUARD
SYSTEM

QUICK
START-UP

EMC
CIVIL
LIMIT

INTELLIGENT
ENERGY
SAVING
IES

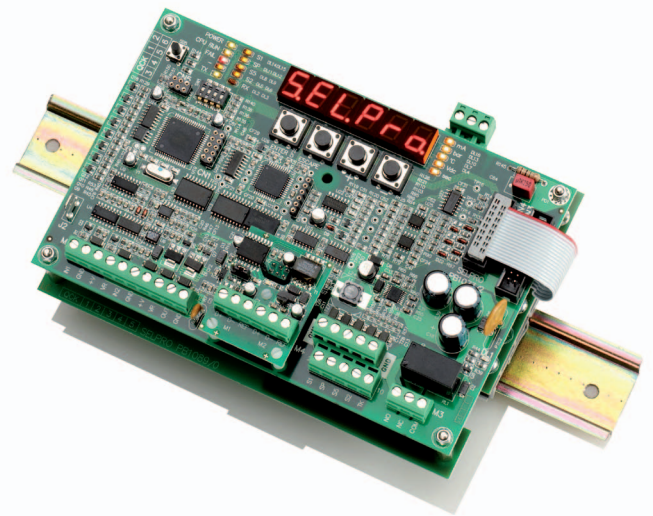
THD
FREE

ADIABATIC
MANAGER

EXTRA
dB
FREE

MODBUS
INSIDE

CLIMA
SINERGY
CLS
INSIDE



SELPRO



PLUS CONTROLLER

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MASTER & SLAVE SYSTEM TO CONTROL THE MANAGEMENT OF EC FANS, WITH INSULATED MODBUS SLAVE REMOTE CONNECTION.

EC Plus device is a multifunction digital unit, with 2 transducer inputs, specialized for the regulation of EC fans Motors.

Designed using a "state of art" microcontroller, is suited to have a choice of 12 different default configurations.

EC Plus is ready to drive EC fans through programmable Master 0-10Vdc net connections.

It's optimized with software "IES", the innovative control algorithm for HVAC&R applications.

Using a serial Modbus (RTU) line, it's possible to read & write all the control parameters of the device, testing and adjusting also the state of the machine from a remote sites.

A Selpro software called Clima-Sinergy is already allowable.

Clima-Sinergy allows data collection, analysis with graphs, change of working parameters, optimization of performances, for remote control & service.

Applications

Used in **HVAC&R** plants to control and regulate:

- ventilation
- suction
- destratificators
- temperature (dry-cooler, heaters)
- pressure (ventilated heaters like condensers, evaporators)
- differential air flow (laminated flow plants, suction hoods)

Available regulations Mode

Master Unit - automatic regulator:

two different modes are selectable:

PID with "IES" technology to keep at Set Point the selected transducer value (i.e. temperature, pressure)

P (proportional) to keep inside Proportional Band the selected transducer value (i.e. temperature, pressure).

Driving command is selectable direct (DIR) or reverse (REV).

Keys Points

Digital regulation

Modbus (RTU) connection

PID or Proportional regulation

Direct and Reverse regulation

Direct connection for Pressure & Temperature probes

ALL-round protection system

Wide digital backlighted DISPLAY with keys

Visualization of regulation functions and alarm messages

Visualizations LED for regulation condition

Technical Characteristics

Power supply	24VAC or 230 VAC or 400 VAC +/-20% (std) - 500 VAC on request
Frequency	50/60 Hz automatic selection
Regulation command output	0-10Vdc programmable
Protection	IP55 – IP00
Standards compliance	Standard EN 50178 (directive 2006/95 CE) Standard EN 61800-3 (directive 2004/108 CE) Standard EN 60204-1 (directive 2006/95 CE)
Regulation SW	n. 12 pre-parameterized HVAC&R Software
Working Inputs	n. 2 inputs (mA-Vdc-NTC) always programmable
Working benches	n. 2 benches of pre-parameterized parameters
Working parameters	n. 50 always programmable
Functional contacts	n. 5 ON-OFF auxiliary contacts
Remotable contact	n. 1 Alarm relay (NO/NC) programmable



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