



NANO CONTROLLER

Dynamic Control Technology



WARRANTY
3
YEARS

**PLUG&
PLAY**

**FULL
GUARD
SYSTEM**

**QUICK
START-UP**

INTELLIGENT
ENERGY
SAVING
IES

**EMC
CIVIL
LIMIT**

**THD
FREE**

**EXTRA
dB
FREE**



SELPRO



NANO CONTROLLER

Dinamic Control Technology

MASTER DIGITAL CONTROLLER FOR THE REGULATION OF EC FANS.

EC Nano 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 ready to drive EC fans through Master 0-10Vdc net connections.
It's optimized with software "IES", the innovative control algorithm for HVAC&R applications.

Applications

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

- ventilation
- suction
- destratifiers
- 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

PID or Proportional regulation

Direct and Reverse regulation

Direct connection for Pressure & Temperature probes

ALL-round protection system

LEDS to display fuctional and alarm conditions

Technical Characteristics

Power supply	20 Vdc +/-10% (std)
Frequency	50/60 Hz automatic selection
Regulation output	0-10Vdc programmable
Protection BOX	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)
Working Inputs	n. 2 inputs (mA-NTC) always programmable
Setting Parameters	Set-Point
	Set-Point adj

