

# Control Unit Commander 20



COMMANDER 20 is an advanced controller created for the regulation of environmental parameters and the improvement of the comfort of people and animals in combination with HVLS air destratifiers and axial fans.

It is used in the most disparate application sectors such as agriculture, industry and commercial sector

## MAIN FEATURES

### Modern

Based on a modern HW platform equipped with a latest generation processor and intelligent menu system

### Expanded connectivity

COMMANDER 20 has an optional MODBUS RTU RS485 interface dedicated to communication with the general supervision system.

### Simple and intuitive

A large screen and elegant graphics make the device extremely intuitive to use.

### User interface

Equipped with a 3.2" color graphic display with 320x240 pixel resolution, LED backlit with capacitive touch screen.

### Energy Saving

Thanks to a regulation algorithms, COMMANDER 20 allows efficient management of the system, reducing energy consumption and thus increasing efficiency

## ADVANTAGES

- Compact design facilitates installations and retrofits.
- Manual calibration function of the temperature and anemometric probe.
- Manual or automatic mode (temperature or wind)
- Anemometric block
- Winter mode
- Units of measurement selectable between metric or imperial system
- Control output up to 20 machines ( $Z_{in} = 200k\Omega$ )
- Designed to be positioned on a 503 box (no built-in) or on the wall thanks to the pre-holes on the box
- Built with quality components, it is guaranteed for 24 months.

### SEDE LEGALE / LEGAL ENTITY

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### SEDE OPERATIVA / PRODUCTION PLANT

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## TECHNICAL FEATURES

### TECHNICAL DATA

Tensione	24Vdc ± 10%
Power Absorption	150mA @24Vdc
Electrical connections	Screw terminal block range 3,81 mm
Cable sections	min 0,5 mm <sup>2</sup> ÷ max 1,5mm <sup>2</sup> min 20 AWG Cu ÷ max 16 AWG Cu

### CONNECTIVITY

Analogic entrance	1 entrance NTC (10k@ 25°C Beta 3435) 1 entrance 4-20mA (Anemometer)
Analogic exit	1 analogic exit 0-10V max 40mA
Digital exit	1 analogic exit ≤50Vac max 1A (contact NO-COM-NC)-> reverse
Serial line (optional)	COM 0 - MODBUS RTU RS485 Not isolated for supervisor (Optional)

### USE

Operating temperature	0=50°C – Rh max 85% non condensate
Storage temperature	0=60°C – Rh max 85% non condensate
Protection grade	IP20

### FINISH

Assembly	Wall mounted
Material	ABS
Self-extinguishing	V0 (according to UL94)
Color	White RAL 9003
Dimensions	128 × 82 × 33 mm
Weight	100g

### REGULATION

CE Compliant	2014/35/UE (LVT – Bassa Tensione) 2014/30/UE (EMC – Compatibilità elettromagnetica)
UKCA Compliant	Electromagnetic Compatibility Regulations 2016 No. 1091 Electrical Equipment (Safety)
Standards references	CEI EN60730 -1, CEI EN60730-2-9 EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4; EN 55014-1, EN 55014-2

