# HYterm FC200P

FC200P is a controller designed for the speed regulation of electronic fans mounted on finned pack heat exchangers. It is used in most application sectors such agriculture, HVAC, industry process, datacenter.

## MAIN FEATURES

### Cloud services
It natively integrates a Plug & Play connection to IIoT GR gateways to transmit process data to the platform HyCloud, allowing the remote monitoring and assistance on heat exchangers deployed all over the world.

### Energy Saving
Thanks to carefully studied control algorithms, FC200P allows an efficient management of the fans, reducing its energy consumption and increasing its efficiency.

### Modern
Based on a modern platform equipped with a latest generation processor, it allows the upgrade of the FW locally through the built-in USB port or remotely through IIoT GR gateways.
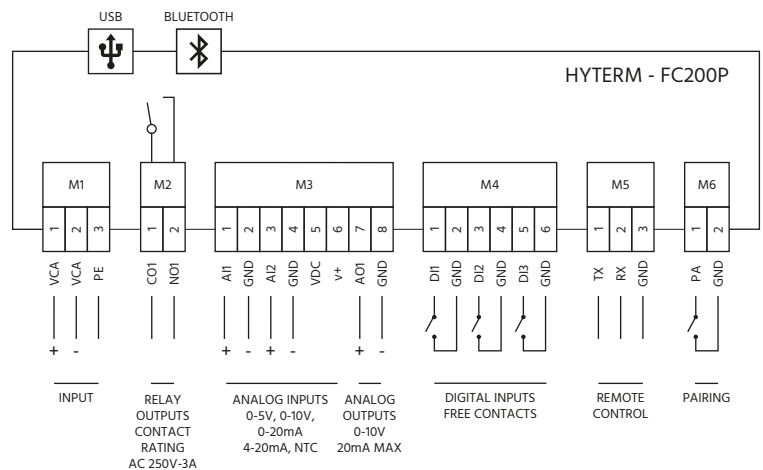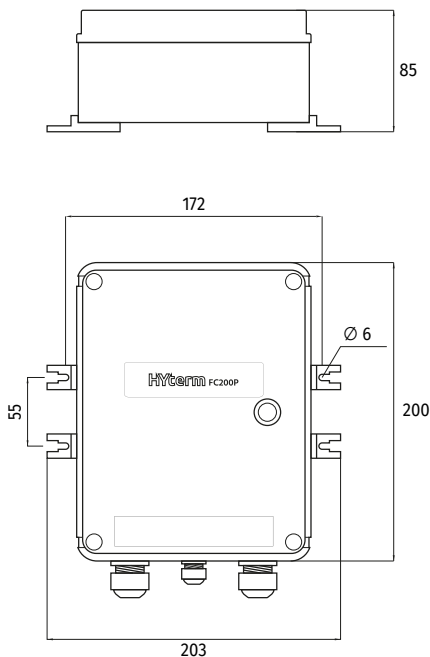
### IIoT Ready
The integrated Bluetooth connection and the free application HyCo allow you to monitor and configure the controller FC200P from IOS or Android mobile device.

## BENEFITS

- Wide range of power supply.
- Equipped with power supply overvoltage protection.
- Compatible with all earthing systems (TT, TN, IT).
- Compact design with a high IP rating simplifies installations and retrofits.
- Simplifies human-machine interaction thanks to the HyCo APP.
- Can be customized for special applications.
- Made with high quality components, it is guaranteed for 24 months.

www.hyterm.com
info@hyterm.com

# FC200P

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Characteristics and technical data of products
and services presented in this document are
preliminary and subject to change without notice.

## TECHNICAL DATA

| | |
|---|---|
| Power supply | 230V ±10% 50/60Hz  -  400V ±10% 50/60Hz<br>440V ±10% 50/60Hz  -  460V ±10% 50/60Hz |
| Power consumption | 10VA |
| Terminal block | Screw plug-in male/female<br>connectors pich 3,81 / 5,08 |
| Cable cross-section | min 0,5 mmq ÷ max 2,5mm$^2$<br>min 20 AWG Cu ÷ max 14 AWG Cu |

## OPERATING CONDITIONS

| | |
|---|---|
| Operating temperature | -20÷50°C – Rh max 85% non-condensing |
| Storage temperature | −35÷85°C – Rh max 85% non-condensing |
| Vibrations | Vibrations <1g (9,8ms2) |
| Degree of protection | IP56 |
| Degree of pollution | — |
| Insulation class | — |

## CONN.

| | |
|---|---|
| Communication lines | COM 1 -  RS232 Remote control |
| Bluetooth | Interior |
| USB | Micro USB |

## MEASURE

| | |
|---|---|
| Dimensions | 200 × 154 × 80 mm (without support-brackets) |
| Weight | |

## INPUTS/OUTPUTS

| | |
|---|---|
| Analog inputs | 2 configurable inputs 0-5V, 0-10V,<br>0-20mA, 4-20mA, NTC |
| Digital inputs | 3 digital inputs (dry contact)<br>All inputs can be configured NO or NC |
| Analog outputs | 1 analog output 0-10V max 20mA |
| Digital outputs | 1 digital output (changeover contact 250V 3A)<br>All outputs can be configured NO or NC |

## ENCLOSURE

| | |
|---|---|
| Mounting | On panel |
| Material | GWPLAST 75 technopolymer (Halogen Free) |
| Ball pressure test | 85°C |
| Flammability Rating | HB (according UL94) |
| GWFI | 650°C |
| Color | Gray RAL 7035 |
| Cable glands | 2 × M20 + 2 × M12 |

## STANDARD

| | |
|---|---|
| Compliance | 2014/35/UE<br>(LVT – Low Voltage)<br>2014/30/UE<br>(EMC–Electromagnetic compatibility) |
| Technical Standard | CEI EN60730 -1, CEI EN60730-2-9<br>EN 61000-6-1, EN 61000-6-2, EN 61000-6-3,<br>EN 61000-6-4; EN 55014-1, EN 55014-2 |

| PRODUCT | DESCRIPTION | CODE |
|---|---|---|
| FC200P | Speed Regulator 230Vac 50/60Hz IP56 | 10.003.00.0001 |
| FC200P | Speed Regulator 400Vac 50/60Hz IP56 | 10.003.00.0002 |
| FC200P | Speed Regulator 440Vac 50/60Hz IP56 | 10.003.00.0003 |
| FC200P | Speed Regulator 460Vac 50/60Hz IP56 | 10.003.00.0004 |

**HYterm**