

HYterm FC400



FC400 is an advanced controller designed for the speed regulation of electronic fans mounted on finned pack heat exchangers. It is used in most application sectors such as for example agriculture, HVAC, industry process, datacenter.

MAIN FEATURES

Modern

Based on a modern platform equipped with a latest generation processor allows the update of the FW locally thanks to the built-in USB port or remotely through IIoT GR gateways.

Energy Saving

Thanks to carefully studied control algorithms, FC400 allows efficient management of the fan unit, reducing its energy consumption and increasing its efficiency.

User interface

It's equipped with a user interface formed by 6 keys and a color graphic display with a resolution of 320x240 pixels backlight by LEDs. Thanks to a dedicated serial line it is possible to add a second remote display.

Cloud services

Natively integrates a Plug & Play connection to gateways IIoT GR to transmit process data to the platform HyCloud allowing monitoring and assistance to the heat exchanger anywhere in the world.

Expanded connectivity

It has two isolated MODBUS RTU RS485 interfaces, two serial interfaces for expansions, one micro USB port and one optional LAN port with MODBUS TCP / IP or SNMP protocol integrated. A wide range of communication protocol converters are also available (BACnet, Konnex, Ethernet, Ethernet IP, Profibus, Profinet and many others).

IIoT (Industrial Internet of Things)

The integrated Bluetooth connection and the free application HyCo allow you to monitor and configure the controller FC400 from IOS or Android mobile device.

Expandable

Thanks to the expansion modules it is able to increase its I/O equipment. Specialized expansion modules are also available for the management of adiabatic systems.

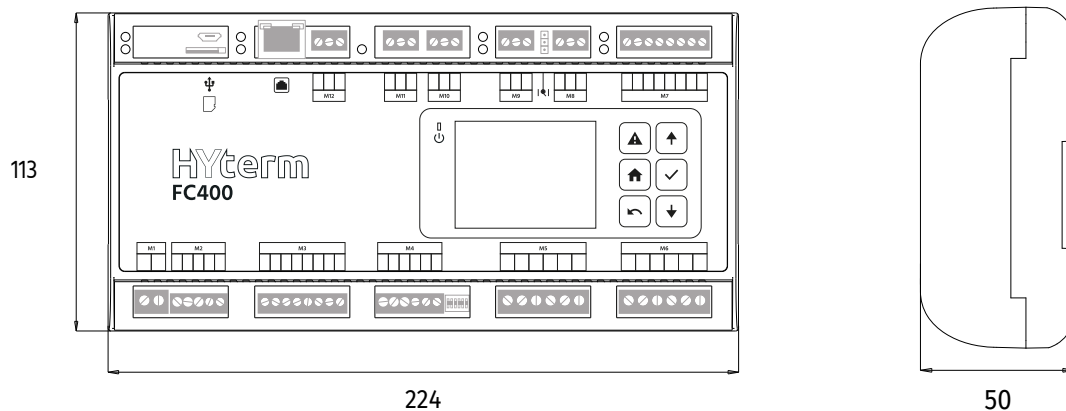
Flexible

It easily adapts to the most varied operating conditions allowing configuration and programming of analog and digital I/O.

BENEFITS

- Simplifies human-machine interaction thanks to the HyCo APP.
- Three levels of access to the password protected menu.
- Can be customized for special applications.
- Can save in memory 2 user-defined configurations.
- Datalogger function on integrated micro SD card.
- Made with quality components, it is guaranteed for 24 months.

FC400



| TECHNICAL DATA | |
|---------------------|---|
| Power supply | 24Vac \pm 10% 50/60Hz 20 \div 32Vdc |
| Power consumption | 10VA |
| Terminal block | Screw plug-in male/female connectors pitch 3,81/5,08 |
| Cable cross-section | min 0,5 mmq \div max 2,5mm ² min 20 AWG Cu \div max 14 AWG Cu |

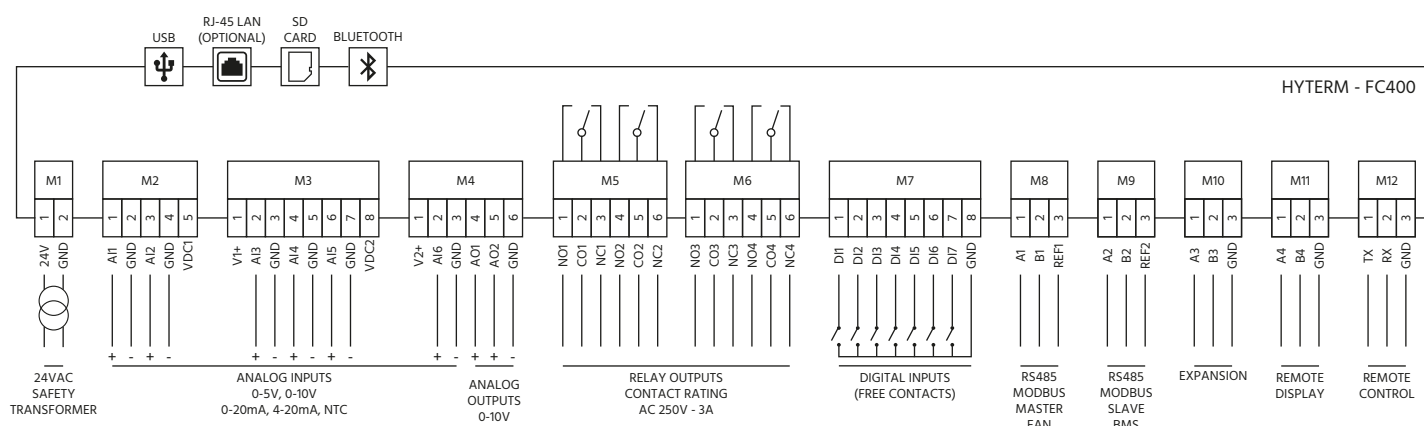
| OPERATING CONDITIONS | |
|-----------------------|---|
| Operating temperature | -20 \div 50°C - Rh max 85% non-condensing |
| Storage temperature | -35 \div 85°C - Rh max 85% non-condensing |
| Vibrations | Vibrations <1g (9,8ms ²) |
| Degree of protection | IP20 |
| Degree of pollution | — |
| Insulation class | — |

| CONNECTIVITY | |
|---------------------|---|
| Communication lines | 2 - MODBUS RTU RS485 opto-isolated 1 - MODBUS RTU RS232 not opto-isolated 2 - Serial communication lines for external expansions |
| Bluetooth | Internal |
| USB | Micro USB |
| SD | Micro SD |

| ENCLOSURE | |
|------------|---|
| Mounting | On a DIN rail according to DIN 43880 CEI EN 50022 |
| Material | ABS |
| Color | Grey RAL 7035 + Blue RAL 5014 |
| Dimensions | 224 \times 113 \times 50 mm |
| Weight | 500 g |

| INPUTS/OUTPUTS | |
|------------------|--|
| Analogue inputs | 6 configurable inputs 0-5V, 0-10V 0-20mA 4-20mA, NTC |
| Digital Inputs | 7 digital inputs (dry contact) All inputs can be configured NO or NC |
| Analogue Outputs | 2 analogue outputs 0-10V max 20mA |
| Digital Outputs | 4 digital outputs (changeover contact 250V 3A) All outputs can be configured NO or NC |

| STANDARD | |
|--------------------|--|
| Compliance | 2014/35/UE (LVT - Low voltage) 2014/30/UE (EMC- Electromagnetic compatibility) |
| Technical Standard | 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 |



| PRODUCT | DESCRIPTION | CODE |
|---------|--|----------------|
| FC400 | DIN Rail speed controller, IP20 (without UI and Ethernet port) | 10.001.00.0004 |
| FC400 | DIN Rail speed controller, IP20, with Ethernet port - MODBUS TCP / IP (without UI) | 10.001.00.0005 |
| FC400 | DIN Rail speed controller, IP20, with UI and Ethernet port - MODBUS TCP / IP | 10.001.00.0006 |
| FC400 | DIN Rail speed controller, IP20, with UI and Ethernet port - SNMP | 10.001.00.0007 |

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