

HYterm FC400



FC400 is an advanced controller born 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

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 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

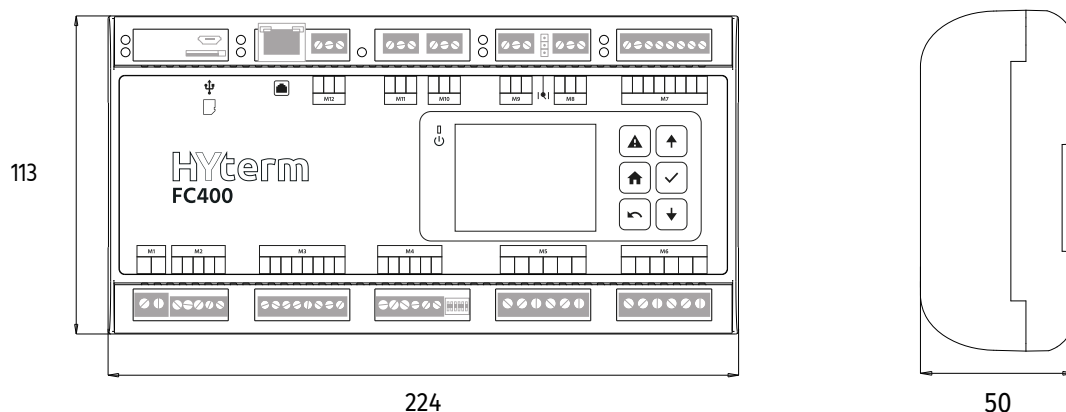
Thanks to the expansion modules it is able to increase its I/O equipment. Specialized expansion modules are also available for the management of adiabatic systems.

Flexible

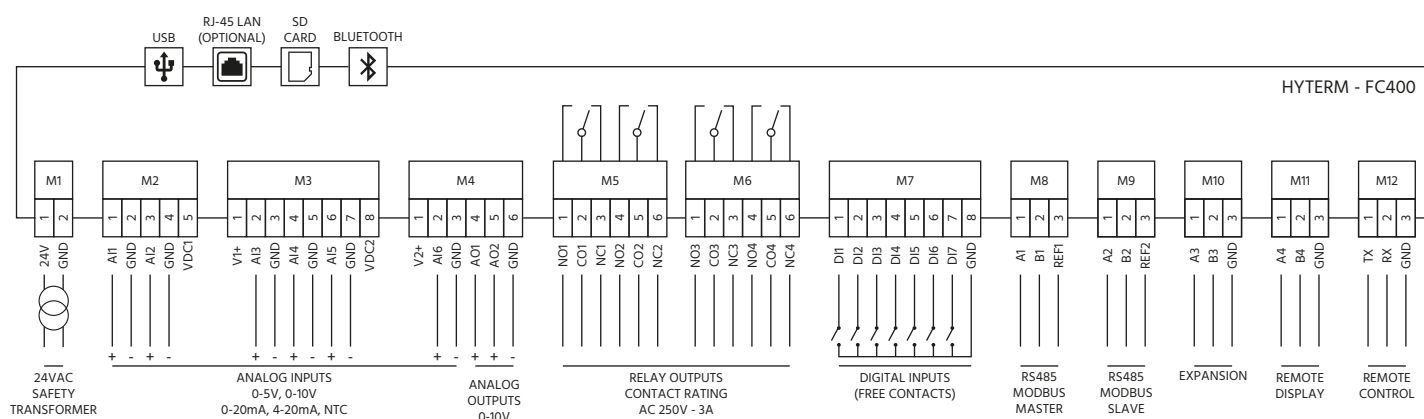
It easily adapts to the most varied operating conditions allowing configuration and programming of analog and digital I/O.

BENEFITS

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



TECHNICAL DATA	Power supply	24Vac $\pm 10\%$ 50/60Hz 28 $\div$ 36Vdc	ENCLOSURE	Mounting	On a DIN rail according to DIN 43880 CEI EN 50022
	Power consumption	10VA		Material	ABS
	Terminal block	Screw plug-in male/female connectors pitch 3,81/5,08		Color	Grey RAL 7035 + Blue RAL 5014
	Cable cross-section	min 0,5 mmq $\div$ max 2,5mm ² min 20 AWG Cu $\div$ max 14 AWG Cu		Dimensions	224 $\times$ 113 $\times$ 50 mm
OPERATING CONDITIONS	Operating temperature	-20 $\div$ 50°C – Rh max 85% non-condensing	INPUTS/OUTPUTS	Analogue inputs	6 configurable inputs 0-5V, 0-10V 0-20mA 4-20mA, NTC
	Storage temperature	-35 $\div$ 85°C – Rh max 85% non-condensing		Digital Inputs	7 digital inputs (dry contact) All inputs can be configured NO or NC
	Vibrations	Vibrations <1g (9,8ms ²)		Analogue Outputs	2 analogue outputs 0-10V max 20mA
	Degree of protection	IP20		Digital Outputs	4 digital outputs (changeover contact 250V 3A) All outputs can be configured NO or NC
	Degree of pollution	2	STANDARD	Compliance	2014/35/UE (LVT – Low voltage) 2014/30/UE (EMC– Electromagnetic compatibility)
	Insulation class	Class II		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
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			



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