

HYterm DS400



DS400 is an expanding module designed for the control of adiabatic system integrated on finned pack heat exchangers; suitable to be combined with the regulator DT400.

MAIN FEATURES

Cloud service

Thanks to the combination with DT400 this device can send all process data to the HyCloud platform, thus allowing the remote monitoring and assistance of the heat exchanger, wherever this may be installed.

Water Saving function

The water saving mode allows to reduce water wastes, granting the performance of the ventilated unit.

Modern

Basing on a modern platform, equipped with a last generation processor, it allows to upgrade the FW in a very simple and intuitive way through the integrated USB port.

"All in One" Solution

It allows the control of high and low pressure spray adiabatic systems and evaporative panel systems in a one solution.

Flexible

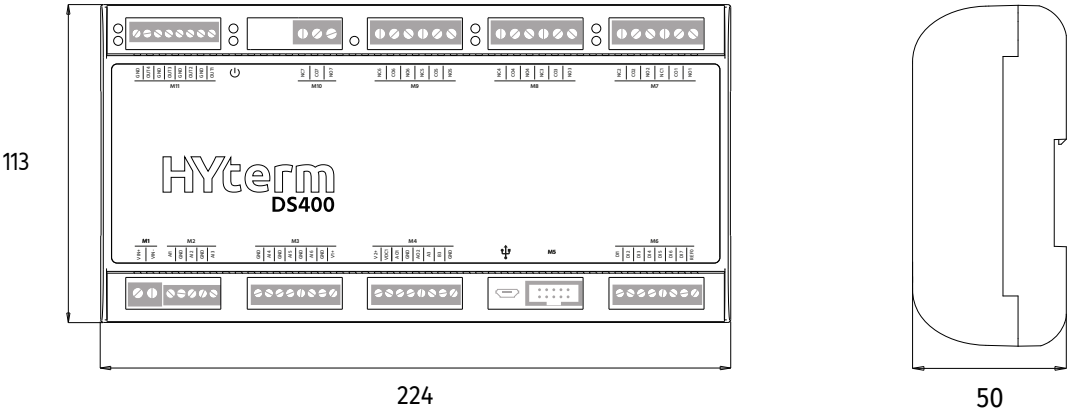
Thanks to the regulator DT400 and a carefully developed Firmware, this device adapts easily to any operational conditions, allowing the configuration and the programming of the analogue and digital I/O.

Antilock function

It activates the adiabatic system at regular intervals, as preconfigured by the user. This avoids the mechanical blocking of valves and pump, due to prolonged downtimes.

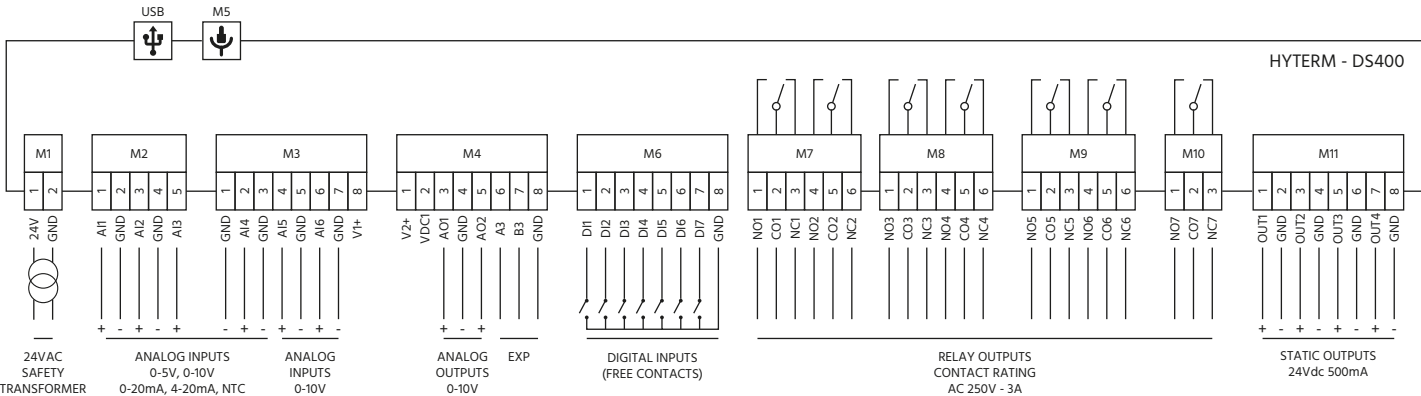
ADVANTAGES

- Using carefully studied regulation algorithms, DS400 can optimize the savings of energy or water, at convenience.
- It simplifies the interaction man-to-machine.
- It allows the manual activation of the spray function, in order to enable the maintenance operations.
- It can monitor the pressure during the functioning of the adiabatic system, notifying any possible malfunction.
- It also keeps room temperature and humidity monitored.
- It can be customized for specific applications.
- It's manufactured with high quality components and has 24 months guarantee.



TECHNICAL DATA	Power supply	24Vac ± 10% 50/60Hz 20 ÷ 32Vdc
	Power consumption	20VA
	Terminal block	Screw plug-in connectors pitch 3,81 (Signal) Screw plug-in connectors pitch 5 (Relays)
	Cable cross-section	min 0,5 mmq ÷ max 2,5mm ² min 20 AWG Cu ÷ max 14 AWG Cu
INPUTS/OUTPUTS	Analogue inputs	4 configurable inputs (0-5V, 0-10V, 0-20mA 4-20mA, NTC) 2 inputs 0-10V
	Digital inputs	7 digital inputs (dry contact) All inputs can be configured NO or NC
	Analog outputs	2 analogue outputs 0-10V max 20mA
	Digital Outputs	7 digital outputs (changeover contact 250V 3A) All outputs can be configured NO or NC
	Static digital outputs	4 static outputs 24Vdc 500mA

ENCLOSURE	Mounting	On a DIN rail according to DIN 43880 CEI EN 50022
	Material	PC/ABS
	Dimensions	224 × 113 × 50 mm
	Weight	500 g
CONN.	Color	Grigio RAL 7035
	Serial line	Serial line (Communication with FC400)
OPERATING CONDITIONS	USB	Micro USB
	Operating temperature	-20 ÷ 60°C – Rh max 85% non-condensing
STANDARD	Storage temperature	-35 ÷ 85°C – Rh max 85% non-condensing
	Vibrations	Vibrations < 1g (9,8ms ²)
	Degree of protection	IP20
STANDARD	Compliance	2014/30/UE (EMC – Electromagnetic compatibility)
	Technical Standard	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
DS400	Adiabatic expansion 24V 50/60Hz IP20	10.018.00.0000