

DANTHERM CCO COOLING CONTROLLER FOR TELECOM



Dantherm CCO Cooling Controller for Telecom is designed for control and monitoring of AC mains-supplied air conditioners and split air conditioners.

The controller has connections for up to 4 internal temperature sensors and 1 remote sensor. Digital 12V output for compressor, heater and condenser fan power relays. Two control outputs for EC fan interface. Two digital inputs can be used for surveillance of fire alarm and remote control of A/C.

The cooling set point can be adjusted to customer requirements, via on-board display and push buttons. The controller must be supplied with 12V DC. (External AC/DC SELV converter).



FEATURES AND BENEFITS

Benefits of Dantherm CCO Cooling Controller

- Operational security: Configuration parameters stored in On-board, non-volatile memory
- Ready for remote control: Configurable digital input/outputs supporting remote monitoring
- Intelligent monitoring: RS 485 ModBus protocol
- Easy configuration and logging: Built-in SD card reader
- Clear, user-friendly display: On-board 4 digit, 7 segment display with LED light
- Flexible operation: On/off and capacity-regulated control of fans/compressor
- Wide operating supply voltage: 85-265V AC (ext. AC/DC converter)
- Quick change of temp. set point: On display (optional)

Connections

- Connection for voltage and current sensor
- Connections for two EC fans
- Phoenix connection for alarm and remote temperature sensor
- Digital inputs for quick and reliable wire termination
- Galvanically insulated alarm output (insulation voltage: 500V).
- TTL Link serial connection for TTL/USB cable for laptop

Optional features

- SD card
- Remote temperature sensor
- Serial TTL/USB adapter (Standard adapter for use with standard terminal PC software)
- Current sensor
- Voltage sensor
- Electronic expansion valve
- Real-time clock/calendar



TECHNICAL SPECIFICATIONS
DANTHERM CCO COOLING CONTROLLER

Product overview	Category	Details
Dantherm CCO Cooling Controller for Telecom	Built-in controller	087911
Specifications		
Operational temperature range, min./max.	°C	-45 to +85
Dimensions (height×width×depth)	mm	184 x 26.8 x 74.5
Input		
DC supply voltage range	12 V	AMP MTA 100
Digital 1	Pull up to 12V	For use with dry contact
Digital 2	Pull up to 12V	For use with dry contact
Remote sensor	NTC	-30 to 85°C
Voltage sensor	Con5255	AMP MTA 100
Current sensor	Con5255	AMP MTA 100
Output		
Condensor Fan	0/12V DC 200mA	AMP MTA 100
Compressor	0/12V DC 200mA	AMP MTA 100
Heater	0/12V DC 200mA	AMP MTA 100
Alarm	Dry contact	Phoenix
EC fan	PWM/Tacho	AMP MTA 100
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Expansion valve	A,a, B,b, +12V	S6B-XH-A
Communication		
Opto-insulated TTL	+, -, TX, RX	AMP – 281698-6
RS 485 Modbus	A, B, GND	RJ 45 w. shield
Memory		
Onboard EEprom	1K non volatile	Storage of operating parameters.
Mass storage device	<32 GB SD Flash	For logging and change of parameters
Certifications		
EN 60950-1		
EN 61000-6-2:2005		
EN 61000-6-3:2007		