

Climate Control Unit

The Power behind.



Main features

- Outdoor cabinet environment control
- Automatic peripheral devices detection
- Wide temperature operating range
- Wide input power range
- Compliant with AC or DC type cooler, heater and lighting
- PWM fan speed control function
- User definable alarm function
- User friendly operation interfaces
- 7-segment LED and LED displays
- °C / °F convertible display
- High / low temperature, high water, high humidity, intrusion and smoke/fire alarm function

Applications

- Outdoor cabinet climate controller
- CDMA/ WiMax Outdoor solution

Description

The Climate Control Unit (CCU) is designed for the environment control of small to medium outdoor cabinets, used for data acquisition and temperature monitoring.

It features the control function of fans, heat exchangers, heaters, lightings and detection function of high temperature, low temperature, high water, high humidity, intrusion and smoke/fire. The redundant characteristic also provides the user a most flexible way to meet versatile applications.

Climate Control Unit - CCU

Technical Specifications

General	
Safety	EN 60 950 class I UL 60 950 CE
EMI, radiated	EN 55022, class B
Compliant with	EN 300 386-2 FCC part 15 Telcordia GR-1089
Cooling	Convection cooled
Protection	IP20

Input	
Voltage range	18 ... 59 V _{DC}
Current maximum	0.4 A _{DC} maximum
EMI, conducted	EN 55022, class B
Input protection	Internal fuse
Input switch	None

Features	
Cooling control	Up to 2 ports
Heater control	1 port
Lighting control	1 port
Temperature	2 ports
Intrusion	1 port
Display	LED
Local monitoring	7-segment LED
Remote monitoring	None
Remote alarming	Dry contacts

Function	
Outdoor cabinet environment control	
Versatile cooling devices control	
Heater control	
Lighting control	
Local parameter setting function w/o additional tool	
AC or DC type cooler, heater and lighting compatible	
PWM fan speed control	
User definable alarm	
°C / °F convertible display	

User Interfaces	
Status indications	LED «Cooling 1» LED «Cooling 2» LED «Heater» LED «CCU Fail» LED «Alarm» 3-digit 7-segment LED: Environment temperature, parameter setting, error messages
Dry Contact	1. Major 2. Minor 3. Alarm 4. Aux-Alarm 5. System Major Alarm 6. System Minor Alarm

Alarm	
LED	CCU Fail Alarm
7-segment LED	Cooling 1 fail Cooling 2 fail Heater fail High temperature Low temperature Temperature sensor fail Intrusion alarm High water Smoke / Fire High humidity

Mechanics	
Height, body	95 mm / 3.7 in
Height, overall	115 mm / 4.4 in
Width, overall	120 mm / 4.7 in
Depth, body	55.8 mm / 2.2 in
Depth, overall	60.1 mm / 2.4 in
Weight	0.24 kg / 0.5 lb

Environment	
Operating temperature	-40 ... +70 °C / -40 ... +158 °F
Relative humidity	95 %, non condensing

All specifications are subject to change without notice according to engineering progress.