

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.

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