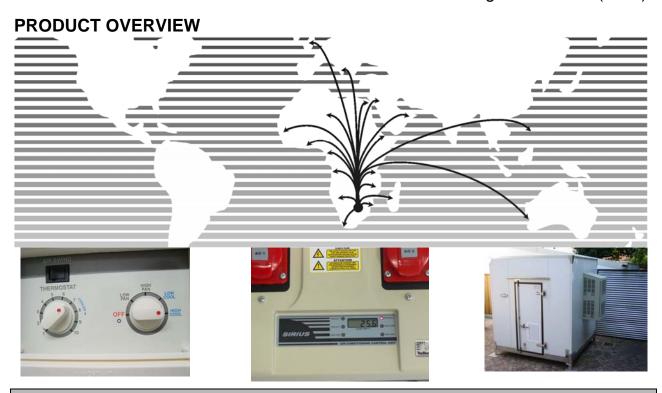
Tautech

Total Solution

Sirius Cooling Control Unit (CCU)



General:

The Cooling Control Unit offers intelligent standalone control of dual redundant air-conditioning systems together with emergency ventilation control and provides site cooling system related digital alarm outputs. When the CCU is used with its optional three-way switching block, it will control three air-conditioning units in one environment.

The CCU is generally applied in duty cycling type of active cooling plant control with stepped type control possible according to the configuration. Different control strategies for optional stand-by emergency ventilation equipment are further provided for. In small telecommunications applications such as GSM, the active cooling plant will typically be commercial cooling only type air-conditioning units of the through the wall or split unit type according to the requirements of a network operator while an emergency ventilation system will be a stand-by DC powered fan/filter arrangement. While the CCU operating principles remain valid for any required capacity of cooling plant the standard solutions operating on the direct switching principle are suitable for active cooling plant up to 7kW total capacity. Larger capacity switching is achieved by way of indirect switching obviating the need for expensive three-phase contactors.

Application:

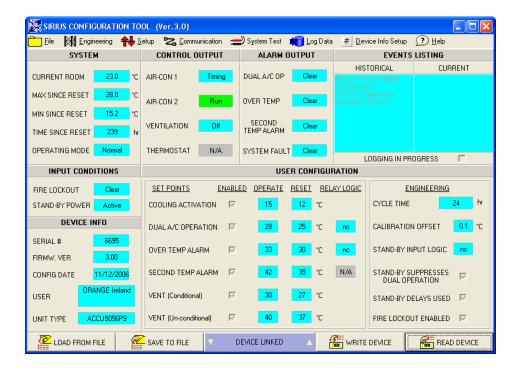
Cooling control in unmanned equipment room environments including:

- Radio Base Stations
 Server Rooms
- Remote Subscriber Switches
 Medical and Industrial Applications
- Transmission Systems



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Main Window in PC Configuration Tool

Features:

- B Flexible design allows for network specific application;
- Suitable for through wall type or split type air-conditioning installations;
- 2 Allows for direct control of cooling plant rated 2,6 to 7 kW class and larger units;
- Accepts auxiliary power supply at 24 or 48V DC or optional internal AC power pack;
- B Incorporates integral fire lock-out feature;
- Designed for manual push button or PC Configuration Tool menu driven setup;
- Optional modified response by Stand-by power running control Input.

Advantages:

Systems are delivered pre-assembled in required configuration allowing for quick commissioning;

While pre-configured to customer requirements, systems remain fully field configurable to allow for changed requirements or enhanced functionality to meet alternative network requirements;

Robust power switching module;

Large customer base with proven service and reliability record;

High reliability due to maturity of designs;

Designed for easy modular first line maintenance;

Electrical safety compliance IEC 60950.



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Product Variants:

MODEL	ACCU50	ACCU70	ACCU73
Application	2,6 to 5kW class Trough Wall Type A/C	2,6 to 7kW class Split Type A/C direct or any larger indirectly	5 to 7kW class Through Wall Type A/C

Specifications:

Temperature sensing: Digital

Temperature sensing accuracy: 0,5°C

Temperature sensing range: -10 to 99°C

Temperature settings range: -10 to 60°C

Cycling time period adjustment: 1 to 99h

Cycling suppression: Programmable

Dual A/C operation suppression: Programmable

or with Stand-by control Input

Liquid crystal display: Full Functional

Room Over Temp alarm: Integral

Second Room Temp alarm: Optional

(Independently programmable)

Peak site temperature recording: Integral

Minimum site temperature recording: Integral

Historical alarms: Events listing

A/C Restart delays: Integral or user

programmable extended delays with Stand-by control Input

Fire Lock-out functionality:

PC Configuration interface: RS232

Emergency Vent. Control: Mains power fail

Conditional

&

Mains Power fail Un-conditional

Alarms output logic: pot free n/c or n/o

Thermostat Output: Optional

(Alternative to second temp alarm)

Reverse polarity protected: Yes

System test mode: Artificial temperature

swing and forced temp mode

Uptime service timer: Yes

Logging functionality: Temperature and full

Events listing to .csv file

Ratings:

Rated Voltage: 400V Ph to Ph;

230V Ph to N

Dielectric strength: 1500VAC, 1 min

Rated Current: ACCU50 16A

ACCU70/73 25A

Rated frequency: 50Hz

Auxiliary supply voltage: 22 to 60V DC

Aux supply current consumption: 40mA@48V DC

Emergency Ventilation

Switching Capacity: Control type 0,5A

Optional Thermostat output: 2A

Alarms Output switching: Relay type 1A

Electronic type 50mA

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Integral