ACC7016

Field Configure FFU Console w/Remote I/O

Overview

AirCare Automation's ACC7016 – Field Configure Small System Console intelligently MONITORs and CONTROLs clean room and facility environments. The console provides communication (MODBUS-RTU platform), unit control, and system monitoring in one easy-to-use package. The ACC7016 has the same features as the ACC7015 with the addition of remote alarm trigger and remote set-back (shut-down).

The ACC7016 console supports fan control networks consisting of up to 50 FFU units organized in up to 5 groups. Plug-and Play, the Console is field configurable to match you facility layout needs. The ACCPNL00 option provides the ACC7016 in an off-white steel panel box with a 3.5" depth to easily mount on a wall. Add Ethernet access – (Remote Access to screen/Console)- Order option ACC-ETH .

Functions/ Features

- **50 FFU per system**
- **5 groups**
- **Alarm for error**
- **7-Day Clock/Calendar feature**
- Unit & Facility/Group speed adjustment
- Monitor/Alarm - following error types:
  - Communication error with the node
  - Pressure switch fault (AC)
  - RPM low or high limit exceeded (EC)
- Menu driven configuration options
- 3 levels of user control: View, User and Master

Environment

- Operational temperature: 0 to 50ºC (32 to 122ºF)
- Storage temperature: -20 to 60ºC (-4 to 140ºF)
- Relative Humidity (RH): 5% to 95% (non-condensing)

Enclosure (ACPNL00 option)

- Durable 18-gauge cold rolled steel construction
- Mounts on surface of a wall
- Captured hinge cover design for easy access
- Off-white textured powder-coated corrosion-resistant
- Key latch for positive closure and security
- Raised mounting rails create clean wiring channel
- Dimensions 7" W X 11" H X 3 5/16"
- RJ45 Coupler included for easy FFU daisy chain
- Din Rail Power Supply included
  - 100-240 VAC Input

Specifications for Graphic Console

Power Supply

- Input Voltage : 24 VDC
- Max Current Consumption: 245mA@24V

Display Screen

- STN, LED, White LED backlit
- Viewing Area: 2.4"
- Display resolution: 128x64 pixels

Keyboard

- 20 keys (10 function, 10 alpha-numeric)
- Key type: Metal dome, sealed membrane switch

Communication

One Isolated RS485 Serial Port (PORT 1)
- Voltage limits -7 to +12VDC differential maximum
- Baud rate: 9600
- Supports up to 50 Modbus addresses
- Cable type: Twisted pair (cat5e)

ACC7016 I/O
- Alarm output –Dry contact
- Standby/setback input
- Emergency shut-down

ACC7015 in enclosure ACPNL00 option
Add Ethernet – Remote Access ACC-ETH option

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EXAMPLE SCREENS

Main screen

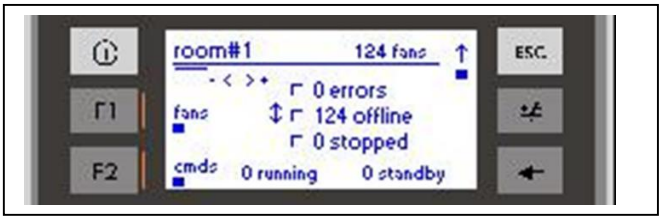
The main screen the software version number, system time and date, and the current access level. If the keypad is not used after 3 minutes, the screen will automatically revert to the “Facility Control” screen.

Facility control

This screen shows the total number of fans and groups defined in the system. It also shows the number of fans found with an error, offline, stopped, running or standby. If an error is found at anytime (if the alarm is activated) an alarm is turned on and the screen automatically goes to the facility overview screen.

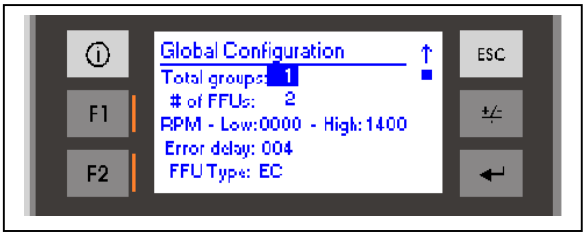
Group control

This screen shows the total number of fans for a given group. It shows the number of fans found with an error, offline, stopped, running and in standby respectively for that group.



Field Configure Screen

This screen provides field configurability: # Groups, # of FFU, type of FFU, RPM High and Low limits for ECM motors, Error Delay, Node Each FFU can be assigned to a respective group

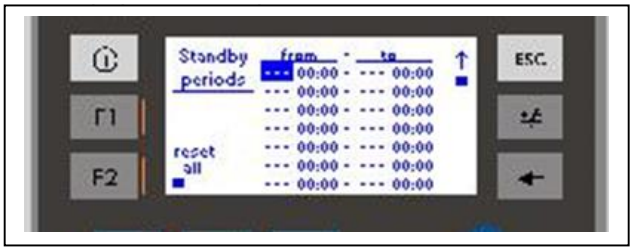


Fan/unit control

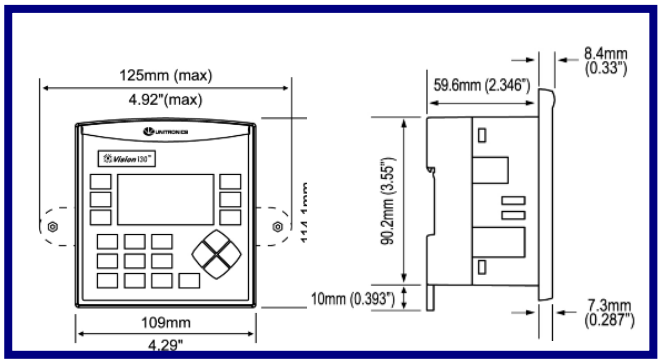
ECM (DC Brushless - ACMxxx) fan control screen shows the Fan #; status of the fan; and group assignment. The fan’s current set point (0-100%), and RPM value are shown (along with high/low limits). The fan’s running speed can be adjusted by pressing the button.
AC fan control screen is the same without the RPM monitor.

7-Day Clock/Calender Setback

This screen allows the operator to define up to seven standby periods. A valid weekday and a time of day (24 hour clock) must be defined for the start and end of each period defined. The



Mechanical Dimensions



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