

Overview

AirCare Automation's ACC7030 – Field Configure FFU Control 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 ACC7030 console supports fan control networks consisting of up to 100 FFU units organized in up to 8 groups. Plug-and Play, the Console is field configurable to match your facility layout needs.

The ACC7030 Console can be supplied in an Enclosure (ACPNL00 option) to easily mount on a wall. The Enclosure option contains a panel box and universal SMPS.

Add Ethernet access – (Remote Access to screen/Console)- Order option ACC-ETH.



Functions/ Features

- **100 FFU per system**
- **8 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

- Panel mounted console
- Operational temperature: 0 to 50°C (32 to 122°F)
- Storage temperature: -20 to 60°C (-4 to 140°F)
- 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 - contact factory
- RJ45 Coupler included for easy FFU daisy chain
- Din-Rail Power Supply included (100-240 VAC Input)

Specifications for Touchscreen Console

Power Supply

- Input Voltage : 24 VDC
- Max Current Consumption: 240mA@24V

Display Screen

- TFT, LCD Display , White LED backlit
- Viewing Area: 3.5"
- Display resolution: 320 x 240 pixels

Keyboard

- Virtual Keyboard when Data entry needed.

Communication

- One Isolated RS485 Serial Port (PORT 1)
 - Voltage limits -7 to +12VDC differential maximum
 - Baud rate: 9600
 - Supports up to 100 Modbus addresses
 - Cable type: Twisted pair (cat5e)

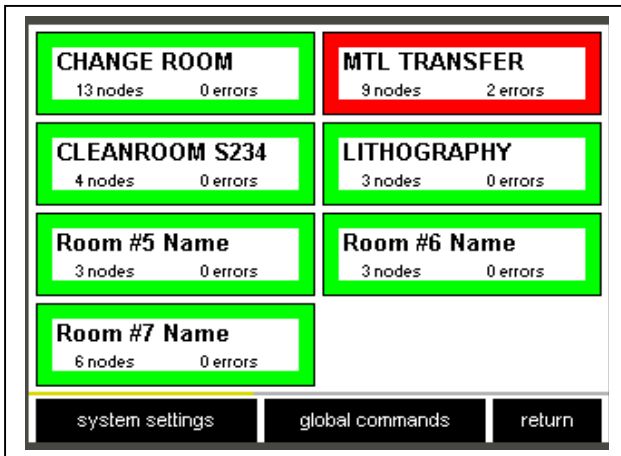


ACC7030 in enclosure ACPNL00 option
Add Ethernet – Remote Access ACC-ETH option

EXAMPLE SCREENS

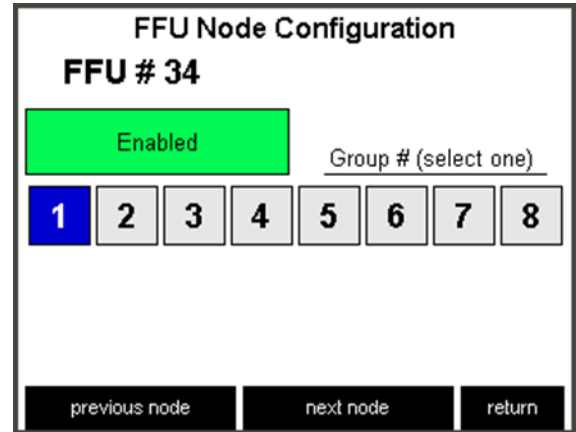
Main screen/Facility Control

The main screen shows the assigned groups and their status (up to 8 groups). Each group has identified number of fans and identified errors. System Settings



Fan/unit Set-Up Screen

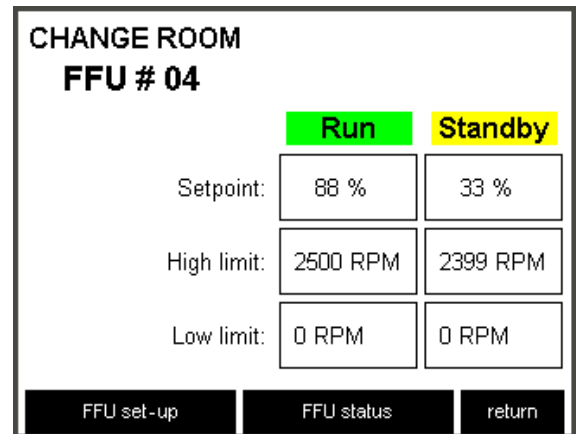
FFU Nodes are assigned easily .. and limits / set-points are assigned per the screen shot examples below.



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). Mode . set-point and limits can be set by touching the relevant box.

AC fan control screen is the same without the RPM monitor.



Mechanical Dimensions

