

## Overview

AirCare Automation’s ACC7031 – 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 you facility layout needs. The ACC7031 has the same features as the ACC7030 with the addition of remote alarm trigger and remote set-back (shut-down). 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: 420mA@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)

### ACC7031 I/O

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

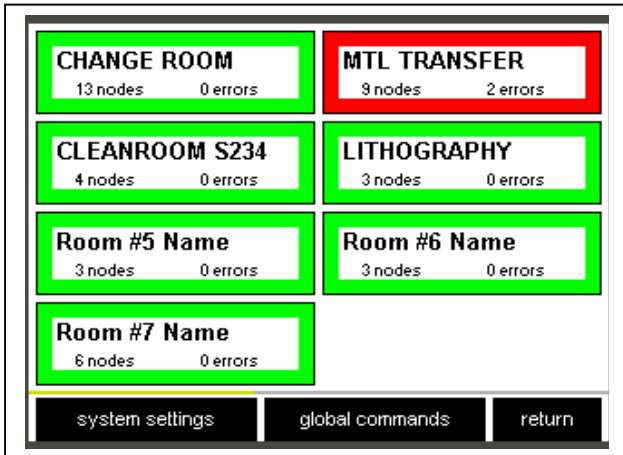


**ACC7031 in enclosure ACPNL00 option**  
**Add Ethernet – Remote Access ACC-ETH option**

## EXAMPLE SCREENS

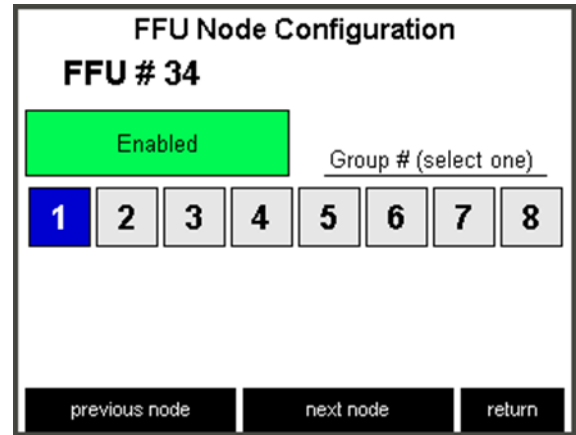
### Main screen/Facility Control

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

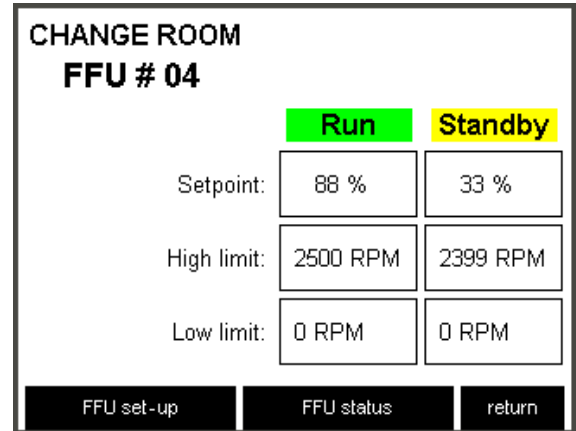
FFU Nodes are assigned easily .. and limits / set-points are assigned per the screen shot examples below.



### 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

