

## Overview

AirCare Automation's ACC7032 – Field Configure FFU Control Console with Environment Monitoring 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 ACC7032 provides Environment Monitoring with up to 6 analog sensors that can be monitored and data-logged.

The ACC7032 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. It has remote alarm trigger and remote set-back (shut-down).

The ACC7032 Console can be supplied in an Enclosure (ACPNL00 option). Add Ethernet access – (Remote Access to screen/Console)- Order option ACC-ETH.



## Functions/ Features

- **100 FFU per system**
- **8 groups**
- **6 analog (4-20mA) sensors**
- **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)

- Wall mount, captured hinge cover, w/key latch
- Raised mounting rails create clean wiring channel
- Dimensions - contact factory
- RJ45 Coupler included for easy FFU daisy chain
- Din-Rail SMPS 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)

### ACC7032 Digital I/O

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

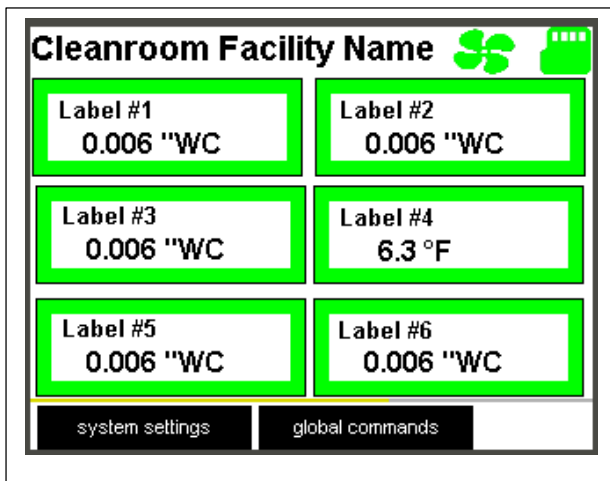


**ACC7032 in enclosure ACPNL00 option  
Add Ethernet – Remote Access ACC-ETH option**

## EXAMPLE SCREENS

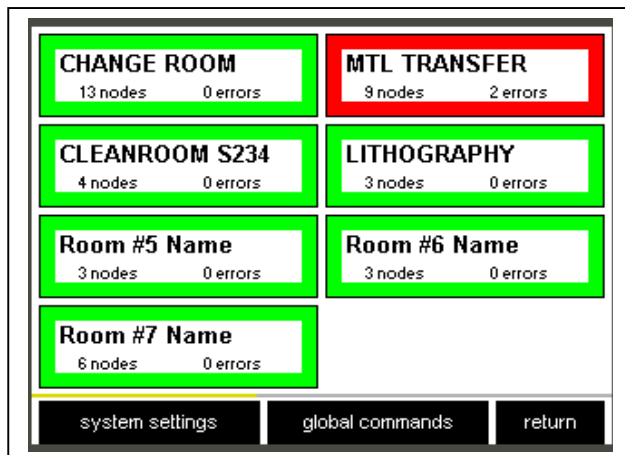
### Main screen- Sensor Monitoring

The main screen shows the sensor status and measurements – key to cleanroom performance. Up to 6 sensors are visible and color coding quickly identifies if the rooms are within acceptable range. The fan-blade provides FFU status (color code) and access to the facility group screen.. and the data-file icon demonstrated the status of the data-log process. System and global settings are also easily accessible from this point.



### Facility Screen - FFU Monitoring

The Facility screen shows the Group (FFU) status – color codes and provides summary group information and access to the individual FFU units.



### Fan/unit Screen and Set-Up Screens

FFU Node information and set-up screens are shown below.. easy to navigate, the user manual provides step-by-step details on setting up your console. FFU's are easily assigned, and limits/set-points are assigned per the screen shot examples below.

