

Overview

AirCare Automation’s ACC7017 – Field Configure Cleanroom (Graphic Screen) Console intelligently MONITORS and CONTROLS clean room and facility environments (up to 50 FFU units organized in up to 5 groups). The ACC7017 provides Environment Monitoring with up to 6 analog sensors that can be monitored and data-logged (option). The console provides communication (MODBUS-RTU platform), unit control, and system monitoring in one easy-to-use package.

The ACCPNL00 option provides the ACC7017 in an off-white steel panel box with a 3.5” depth to easily mount on a wall.

The ACC-DL option provides Datalog feature (SD Card)

The ACC-ETH option provides remote access for both Console controls and Datalog downloads.



Functions/ Features (Field Configure)

- **50 FFU per system**
- **5 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

- 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 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)

ACC7017 I/O

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

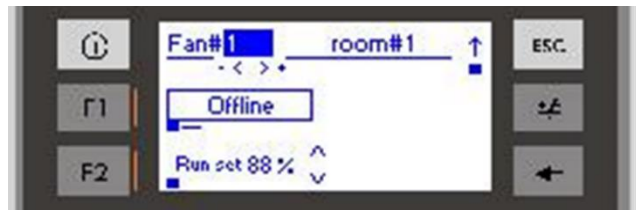
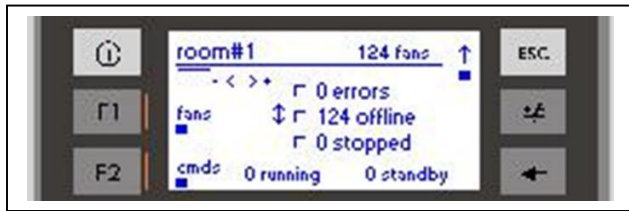


ACCPNL00 -ACC7017 in enclosure option
ACC-DL – Add Datalog (SD Card storage) option
ACC-ETH –Ethernet (remote access/remote DL)

EXAMPLE SCREENS

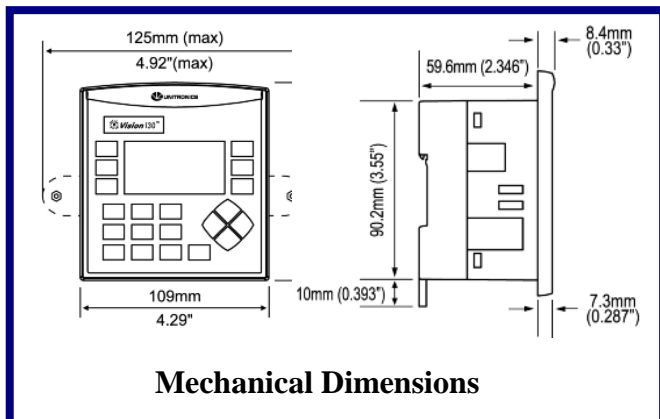
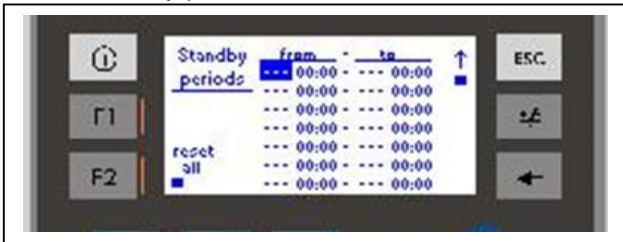
Facility /Group / Unit control

These screen show facility (the total number of fans and groups). Group Views (unit detail in the group) and Unit views (individual unit level EC and AC option)



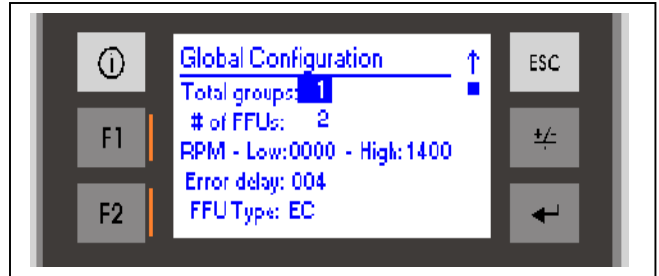
7-Day Clock/Calendar Setback

This screen allows the operator to define up to seven standby periods.



FFU Configure Screen

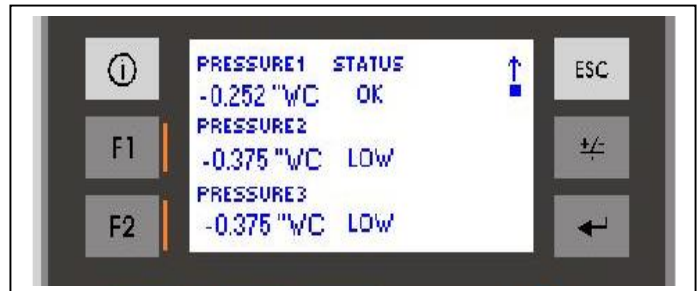
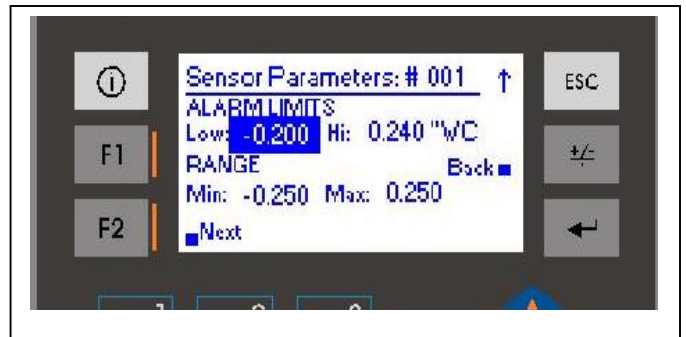
This screen provides field configurability: # Groups, # of FFU, type of FFU, RPM High and Low limits for ECM motors, Error Delay, Node Each FFU can be assigned to a respective group



Sensor Configure & Monitor Screens

Sensor Parameter allows user to set up the sensor monitoring. Choose the sensor type, the range and the alarm limits...

Sensor Monitoring screen shows the sensor output



Sensor Datalog - Add Option ACC-DL

Sensor data is stored on SD card for future download .. - add Ethernet access (ACC-ETH) for network download

