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 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)

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 screens 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).

**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.

**Mechanical Dimensions**

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Email: info@aircareautomation.com  
Website: www.aircareautomation.com  
8204 N. Lamar, Suite B-11 Austin, TX 78753  
Tel: (855) 234-9237  
Fax: (866) 542-0612