

# **Zephyr 2 Touchscreen Monitoring**

# **Overview**

AirCare Automation's **Zephyr 2** – Field Configure Monitoring Console intelligently MONITORs and CONTROLs clean room and facility environments. The console provides communication (MODBUS-RTU platform), system monitoring (and FFU control) in one easy-to-use package.

The **Zephyr 2** console supports cleanroom monitoring up to 6 rooms – with ability to add FFU control for up to a total of 100 FFU addresses. Plug-and Play, the Console is field configurable to match your facility layout needs The **Zephyr 2** Console is supplied in a White Steel enclosure (ACPNL00 with SMPS) to easily wall mount. Ethernet Access provides remote access to the console, e-mail alarm notification and data-log download for the sensor readings.

OPTION – BMS exchange (MODBUS TCP, OPC or BACNET) OPTION – FFU Control for up to 6 rooms (100 FFU) OPTION – Digital I/O for FFU set-back, shut-down

# **Functions/ Features**

- Monitor Diff. Pressure, Temp, RH
- Set Hi/Lo alarm limits
- Adjust read-out to match certifier measurements
- 6 rooms
- Data-Log of results
- E-mail Alarm notification
- 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 - 10 x 8 x 4 inches)

Formed and spot welded from 16-gauge steel.

Formed steel covers - slotted quarter turn latch.

Full swing door using butt hinges.

Through holes in back for wall mounting.

Bonding stud is provided on the door and a grounding stud is provided on the box.

Includes 14-gauge steel inner panel.

UL-50 Type 1 CSA Type 1

NEMA Type 1 IEC 60529, IP20



# **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 6 Sensor Modules & 100 FFU addresses
- Cable type: Twisted pair (cat5e)



**Zephyr 2 in enclosure (ACPNL00)** 

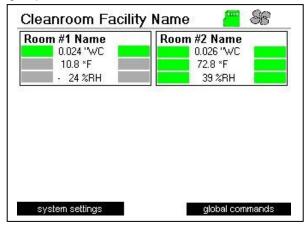
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# **EXAMPLE SCREENS**

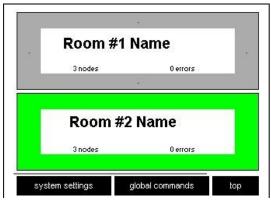
#### Main screen/Facility Control

The main screen shows the assigned groups (in this example 2 rooms) with measured P, T, RH. Each group has identified number of fans and identified



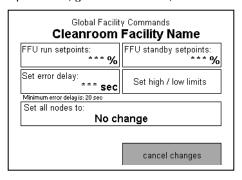
#### Fan/unit control

With FFU control added, the 6 rooms have room identification noting the number of fans in the room and error notification for the room. Tapping on the room gets you to the individual Fan information.



# **Fan/unit Global Commands**

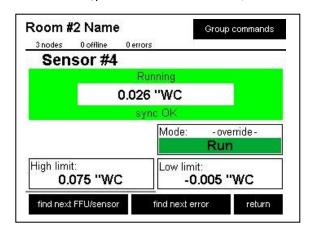
FFU set-up is easy and trouble free. Set-up screens, global commands, hi/low limits.



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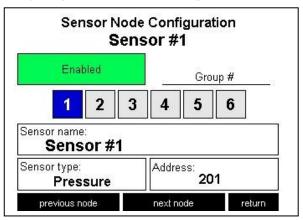
#### **SENSOR SCREENS**

Pressure, Temperature and Relative Humidity Screens provide individual sensor access .. providing high/low limit control and allowing sensors to be turned on/off.

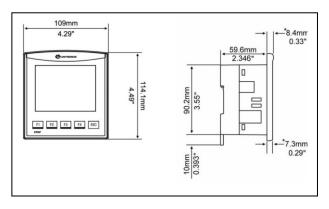


### Sensor Node Set-Up

Sensor Nodes are easily set-up and assigned to rooms.DSM units are preassigned MODBUS addresses to easily assign up to the 6 rooms designated



#### **Mechanical Dimensions**



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