

Zephyr 3 Touchscreen Monitoring

Overview

AirCare Automation's **Zephyr 3** – 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 3** console supports cleanroom monitoring up to 12 rooms – with ability to add FFU control for up to a total of 120 FFU addresses. Plug-and Play, the Console is field configurable to match your facility layout needs

The **Zephyr 3** Console is supplied in a White Steel enclosure (ACPNL08 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 12 rooms (120 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**
- **12 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 (ACPNL08 - 14 x 12 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: 500mA@24V

Display Screen

- TFT, LCD Display, White LED backlit
- Viewing Area: 7.0"
- Display resolution: 800 x 480 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 3 in enclosure (ACPNL08)

