

# Zio<sup>®</sup> Lite Wall Modules

Models TR40-XX, TR42-XX

## GUIDE SPECIFICATION



## SECTION 23 09 13 INSTRUMENTATION AND CONTROL FOR HVAC

### Sensors and Transmitters

**NOTE:** Where italicized, the engineer needs to make some selection from the options given.

#### A. Space Temperature Backlit LCD Wall Module.

1. LCD Wall Module shall have a default temperature set-point range of 55° to 85° F (10° to 35° C); configurable for other ranges. Designed for mounting on a standard two by four inch or 60 mm diameter junction box.
  - a. Temperature Sensor Accuracy:  $\pm 0.36^{\circ}$  F at 77°F ( $\pm 0.2^{\circ}$  at 25° C)
  - b. Operating Temperature Ambient Rating: 30° to 110° F (-1° to 43° C)
  - c. Relative Humidity: 5% to 95% non-condensing

2. LCD Wall Module shall have integral relative humidity sensor (*Where Shown on Drawings*):
  - a. Humidity Sensor Accuracy:  $\pm 3\%$  RH from 20% to 80%
3. LCD Wall Module shall have integral carbon dioxide sensor (*Where Shown on Drawings*):
  - a. Carbon Dioxide Sensor Accuracy:  $\pm(30 \text{ PPM} + 3\%$  of measured value) from 0 to 2000PPM, OR  $\pm 60$  PPM at 600 and 1000 PPM. (Choose preferred)
  - b. CO2 sensor is calibrated at the factory
  - c. No CO2 calibration required for the life of the product.
4. LCD Wall Module configurable "Home Screen" shall (choose from below).
  - a. Display Room temperature.
  - b. Display Temperature set point.
  - c. Display Room humidity
  - d. Display Room CO2
  - e. Display Device name
  - f. Scroll through some or all of the values above (specify which).
5. LCD Wall Module Keypad:
  - a. Where specified, keypad shall be configured to provide an after-hours occupancy override with a (choose 1, 2, 3, 4, 5, 6, 7, 8, 12, 16, 20, 24) hour override time.
  - b. Where specified, keypad shall be configured to provide fan control switch for (choose auto-off-on, auto-off-low-med-hi, or auto-on) fan control.
6. LCD Wall Module function is further specified in SECTION 23 09 93 "Sequence of Operations for HVAC Controls".
7. LCD Wall Module shall have the ability to access and adjust the room temperature setpoint.
8. Keypad enabled, password protected lock-out shall have the ability to restrict access to setup information.
9. LCD Wall Module shall have a two-wire polarity insensitive wiring that includes both power and communication.
10. LCD Wall Module shall be configurable using Niagara AX Framework™ workbench tool.



## B. Space Temperature Wall Module

1. Wall Module shall have a default temperature setpoint range of 55° to 85° F (10° to 35° C); configurable for other ranges. Designed for mounting on a standard two by four inch or 60 mm diameter junction box.
  - a. Temperature Sensor Accuracy:  $\pm 0.36^{\circ}$  F at 77°F ( $\pm 0.2^{\circ}$  at 25° C)
  - b. Operating Temperature Ambient Rating: 30° to 110° F (-1° to 43° C)
  - c. Relative Humidity: 5% to 95% non-condensing
2. Wall Module shall have integral relative humidity sensor **(Where Shown on Drawings)**:
  - a. Humidity Sensor Accuracy:  $\pm 3\%$  RH from 20% to 80%
3. Wall Module shall have integral carbon dioxide sensor **(Where Shown on Drawings)**:
  - a. Carbon Dioxide Sensor Accuracy:  **$\pm(30\text{ PPM} + 3\%$  of measured value) from 0 to 2000PPM, OR  $\pm 60\text{ PPM}$  at 600 and 1000 PPM. (Choose preferred)**
  - b. CO2 sensor is calibrated at the factory
  - c. No CO2 calibration required for the life of the product.
4. LCD Wall Module shall have a two-wire polarity insensitive wiring that includes both power and communication.
5. LCD Wall Module shall be configurable using Niagara AX Framework™ workbench tool.

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