

## **Zone Control Basic**

Project Part Number Ref.

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#### Overview

Zone Control Basic (ZC Basic) is a UL Listed distributed lighting controller in a compact junction box mounted package. ZC Basic may be scheduled from any BACnet BAS, and it is compatible with all low voltage override switches, occupancy sensors, and light level sensors. ZC Basic is suited for new or existing buildings, and may be scaled from basic to advanced occupancy and vacancy detection control sequences.

#### **Features**

UL Listed and Plenum Rated BACnet MS/TP communication to BAS network Line and low voltage compartment separation Micro-USB and Bluetooth (optional) ports for configuration Monitor and measure equipment performance:

Track lamp, ballast, and relay life

Track schedule, occupancy sensor, and manual control savings

### **General Specifications**

Construction: 20ga steel white powder coat finish

Dimensions: 5.063"(129mm)H x 10.00"(254mm)W x 2.50"(64mm)D

Weight: 3lbs (1.36kg)

Mounting: 4" or 4 11/16" junction box (Check local code requirements) Operating Environment: 0-140°F(-18-60°C), 10-90% RH, non-condensing

Type 1 (dry / indoor environment)

Plenum Rated

#### Certifications

UL Listed, UL916 Standard for Energy Management Equipment, US/Canada FCC Part 15 CEC Title 24

Electronics meet or exceed IEC Level 3

#### Warranty

Two (2) year limited manufacturer warranty from date of shipment (extended warranty optional).

## Line Voltage Specifications (FI-1 Board)

Power Feed: 120, 230, or 277VAC, 50/60hz, +/- 10%, single phase, 20A

circuit (powers ZC and feeds relay outputs)

ZC Maximum Load Rating: 20A

Relay Maximum Load Rating: 20A tungsten @ 120VAC, 20A ballast @ 277VAC, 20A resistive @ 277VAC, 1.5HP @ 120VAC

Relay: 2 mechanically latching relays with manual override lever Relay Status: Opto-isolated Power Tap (PT) on load side of relay contacts Line Voltage Input: 2 switch inputs, must utilize same ZC power feed Line Voltage Input Type: Configurable for maintained or state-change Wire Requirement: 14-10AWG (Solid or Stranded copper wire only)

## Low Voltage Specifications (FI-2 Board)

Universal Input (UI) Power Out: 24VDC, 200mA total Universal Input: 6 two-wire inputs

Universal Input Software Configuration:

Digital Input (DI)

Analog Input (AI): 0-5VDC, 0-10VDC, or 4-20mA

Universal Input Wire Requirement / Maximum Length: 18AWG (Solid or Stranded) / 500'(152m)

## **BAS Network Specifications**

Protocol: BACnet MS/TP

Baud Rate: DIP switch selectable 9.6K, 19.2K, 38.4K, 76.8K, or 115.2K

Device Profile: BACnet Advance Application Controller (AAC)

Address Range: 1 – 99 selectable with rotary dials
Unit Load: Full unit load, 32 devices per MS/TP segment

Topology: RS-485, half duplex, daisy chain wiring

Wire Requirement / Maximum Length: CL3P, 22AWG, 2 conductor,

shielded, low cap / 4000'(1216m) Points: See *PIC Statement* 

## Firmware Specifications (Controller Board)

Platform: Aperio Open Control Platform

Time Clock: Real-time clock with BACnet time sync

Schedule: BACnet Schedule, Monday – Sunday, Holidays, and Exceptions Non-Volatile Memory: 16MB total, 2MB for trend data (15min trend requires

2K per day)

RAM: 2MB total, data stored in non-volatile memory upon power loss

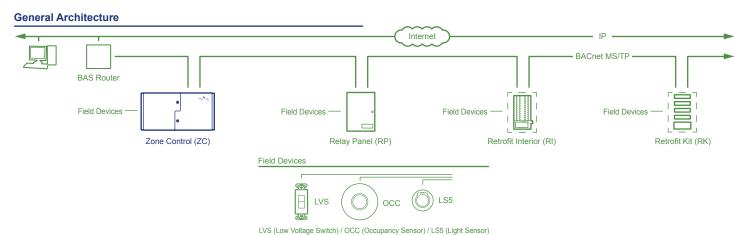
Configuration: Tech Kit 2.0 (see data sheet for details)

Configuration Connection: Micro-B USB or Bluetooth Wireless

# **Zone Control Basic**

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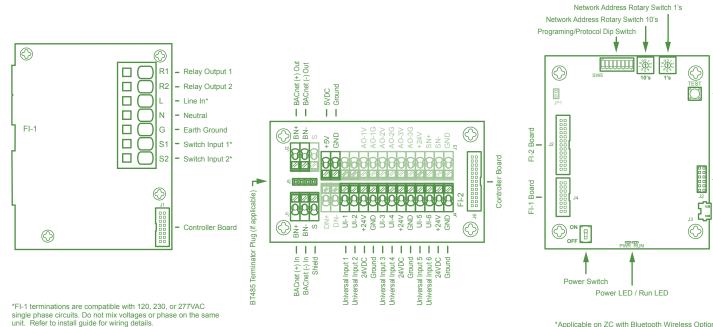
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#### FI-1 Board Terminations

## FI-2 Board Terminations

### **Controller Board Terminations**



<sup>\*</sup>Applicable on ZC with Bluetooth Wireless Option only.

