EVCB-ZB

Description

The Neptronic EVCB-ZB controller offers advanced and versatile management for single-zone Variable Air Volume (VAV) systems in light commercial settings. With options for both pressure-dependent and pressure-independent systems, it supports multiple applications with the various input and output configurations. Its integration capability with BACnet MS/TP ensures seamless communication with the Neptronic Rooftop App and Neptronic Rooftop Controllers (CMMB-ZB).

Designed for easy commissioning and air balancing and, the EVCB-ZB is ideal for optimizing HVAC performance in diverse applications, including cooling, heating, and reheat systems.

Features

- Field-configured VAV algorithms
- Built-in actuator 70in.lb [8Nm]
- On-board differential pressure sensor (pressure-independent models)
- Up to 2 analog and 2 digital inputs
  - Pre-defined for changeover sensor
  - External duct sensor
- Configurable outputs
  - Modulating outputs for duct reheat and baseboards
  - On/Off outputs for duct reheat, baseboard or fan-powered box
  - Pulse outputs for duct reheat and baseboards
- Configurable PI (Proportional-Integral) functions
- Simple air balancing and commissioning via digital room sensor

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Edge

Network Communication

- ✓ BACnet MS/TP
    - ✓ MS/TP @ 9600, 19200, 38400 or 76800 bps
    - ✓ Automatic baud rate detection
    - ✓ Automatic device instance configuration
- ✓ Select MAC address via DIP switch or via network

Applications

- ✓ Single-zone VAV with cooling and/or heating, with reheat, changeover, and
- ✓ perimeter reheat applications
- ✓ Pressure dependent or pressure independent
- ✓ Changeover based on master rooftop unit or local duct sensor
- ✓ Used with Neptronic rooftop unit controllers (CMMB-ZB)

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