

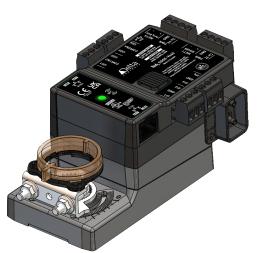
# Red5-EDGE-V440

# Description

The Red5-EDGE-V440 is a fully integrated, programmable, IoT-based VAV controller that communicates using BACnet/IP, BACnet over Ethernet, or BACnet/SC. It is a native BACnet controller that supports an Ethernet daisy chain with bypass technology, with additional support for Red5BUS expansion. Using the Proviso<sup>™</sup> app, you can adjust network settings to streamline the connection and configuration process.

# Application

Specifically designed for VAV applications, the Red5-EDGE-V440 includes an actuator and differential pressure sensor with an integrated housing. The fully programmable, IoT-based Red5-EDGE-V440 allows GCL+ programs and BACnet objects to be tailored to any VAV application.



### Features

- Native BACnet firmware
- BACnet/IP, BACnet over Ethernet, BACnet/SC
- Supports a RS-485 subLAN of LINKnet smart network sensors and remote I/O expansion modules
- Direct-mount housing integrates controller, Belimo actuator, and airflow sensor into a single package for easy, cost effective installation
- Ethernet daisy chain with bypass

- Built-in, selectable, editable Guideline 36 databases
- Network configuration via NFC
- Fully programmable in GCL+
- Zero drift differential pressure sensor
- LED indicator and SCAN status
- Support for up to 5 Modbus RTU devices
- USB port
- Anti-rotation bracket included

# Specifications

BACnet Device Profile BACnet Building Controller (B-BC)

#### **External Inputs**

4 universal inputs Software selectable: 0–5 VDC 0–10 VDC 10K thermistor 4–20 mA

#### **Internal Inputs**

1 actuator position feedback standard 1 airflow input, differential pressure 0-2 inH<sub>2</sub>O (0-500 Pa)

#### **External Outputs**

4 universal outputs Software selectable: B0: 24 VAC/DC @ 500 mA max A0: 0–10 VDC @ 20 mA max

#### **Belimo Actuator**

Integrated Belimo actuator with analog positioning control 5 N·m (45 in-lb) torque

**Device Addressing** Software addressed

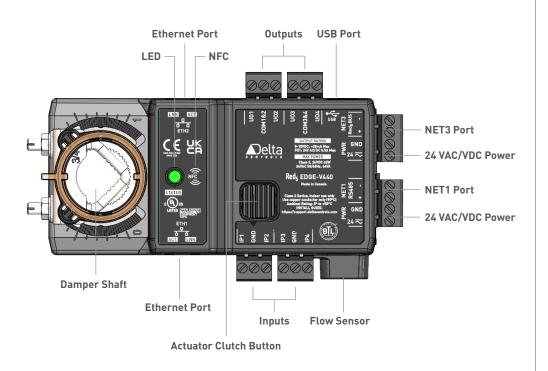
**Connectors** Removable screw-type terminal connectors

Wiring Class NEC Class 2 / SELV

**Tubing** Flow sensor tubing must be 4 mm (\$/<sub>32</sub> in.) inside diameter

# Red5 Series

# Red5-EDGE-V440



# Ordering

Order the Red5-EDGE-V440 application controller according to the following product number:

322149	Programmable, IoT-based VAV controller, Belimo actuator, 4 inputs, 4 universal
	outputs (AO or BO)

# Accessories

Proviso™	Provisioning tool for setting up and configuring devices. Download the app from
Арр	Google Play (Android) or the App Store (iOS).

# **Specifications (Continued)**

**Power** 24 VAC, 50/60 Hz @ 64 VA max, 14 VA typ 24 VDC, 62 W max, 5 W typ

**Technology** 32-bit dual-core Arm® Cortex®-A7 256 MB RAM 4 GB flash memory 24.4 KB GCL+ PG size 20 MB database space

#### Communications Ports 2 Ethernet (10/100-BaseT) ports with failover bypass BACnet/IP, BACnet over Ethernet, BACnet/SC

NET1 (RS-485): LINKnet up to 76800 bps, max 12

LINKnet devices total with no more than 4 DFM-4xx devices

BACnet MS/TP: max 4 devices (1 port only) up to 76800 bps, max

Modbus RTU max 5 devices

NET3 (Red5BUS): Max 4 remote I/O modules (requires Red5-EXPAND-04); max 2 03 Hubs

1 USB port

NFC

Ambient 0°C to 50°C (32°F to 122°F) 10% to 90% RH (non-condensing)

Dimensions

158×88×68 mm (6.22×3.46×2.68 in.)

## Weight

427 g (0.94 lb) excluding anti-rotation bracket

Compliance CE

FCC

Listings UL 916 Listed

Subject to change without notice.

