

Red5 Series

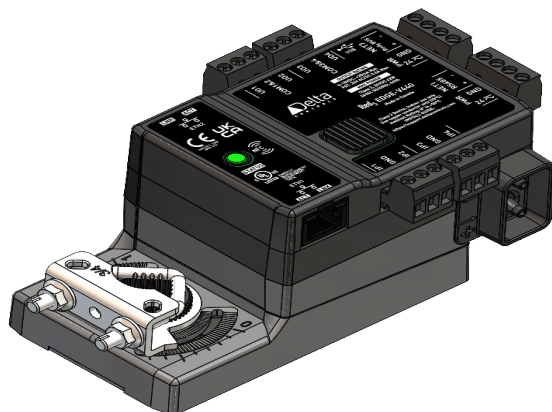
Red5-FIELD-V440

Description

The Red5-FIELD-V440 is a VAV controller that communicates over RS-485 using the BACnet MS/TP protocol. Using the Proviso™ app, you can adjust network settings to streamline the connection and configuration process.

Application

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



Features

- ▶ 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
- ▶ 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
- ▶ 1 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

4-20mA (with 250 ohm resistor)

Internal Inputs

1 actuator position feedback standard

1 airflow input, differential pressure

0-500 Pa (0-2 inH₂O)

External Outputs

4 universal outputs

Software selectable:

BO: 24 VAC/DC @ 500 mA max

AO: 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 and DNA addressing

Connectors

Removable screw-type terminal connectors

Wiring Class

NEC Class 2 / SELV

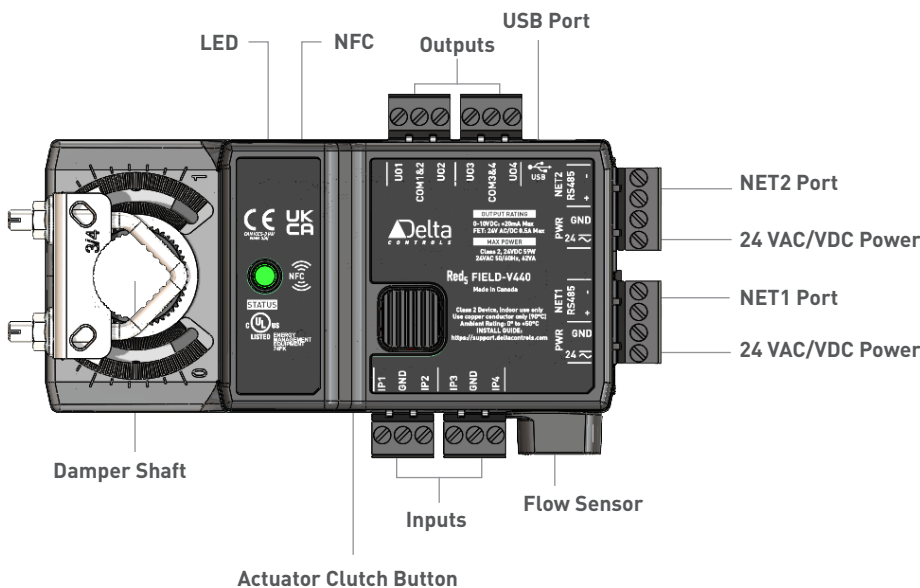
Tubing

Flow sensor tubing must be 4 mm (5/32 in.) inside diameter

Updated December 2025

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Specifications (Continued)

Power
24VAC, 50/60 Hz @ 59VA max, 11VA typ
24VDC, 56W max, 3W 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
NET1 (RS-485):
BACnet MS/TP, up to 76800 bps, max
NET2 (RS-485):
Delta LINKnet up to 76800 bps, max
12 devices on LINKnet
Modbus RTU; baud rate 38400 bps,
maximum 5 devices (1 port only)

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
UKCA Listed

Ordering

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

322143	Programmable, MS/TP VAV controller, Belimo actuator, 4 inputs, 4 universal outputs (A0 or B0)
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Accessories

Proviso™ App	Provisioning tool for setting up and configuring devices. Download the app from Google Play (Android) or the App Store (iOS).
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Subject to change without notice.