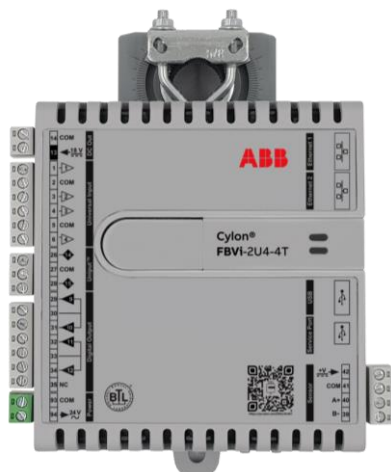


TECHNICAL DATA SHEET

DS0133 rev 22

Cylon® FBVi-2U4-4T



DESCRIPTION

The FBVi-2U4-4T is a freely programmable BACnet® Unitary Controller with native BACnet/IP communications support. The controller is BTL listed as BACnet Building Controller (B-BC) and is ideally suited for the control of Variable Air Volume zoning applications.

Part of the Cylon® FLXeon Series of BACnet/IP field controllers, the FBVi-2U4-4T features 2 UniPuts™, 4 Universal Inputs and 4 Digital (Triac) Outputs, along with an integrated airflow sensor and a dedicated input for Cylon® room sensors. The FBVi-2U4-4T model includes an integrated Belimo actuator.

APPLICATION

The FBVi-2U4-4T is suitable for controlling single duct or fan assisted Variable Air Volume (VAV) applications. This controller also supports demand ventilation application, occupancy sensing or lighting control to further enhance energy savings.

Typical VAV zoning applications include;

- Cooling only
- Cooling with Reheat
- Cooling with Reheat and Perimeter Radiation
- Series fan VAV
- Parallel fan VAV
- Dump box
- Room pressurization

The controller accommodates available pre-engineered strategies or can be tailored to custom applications using CXpro^{HD} programming software.

2 UniPuts

ABB's patented technology that can be configured as analog / digital outputs or voltage inputs

4 Universal Inputs

Can be configured as analog (voltage or current) or digital inputs

4 Digital (Triac) Outputs

Can switch 24 V AC @ 500 mA (live or neutral)

IP Connected

Supports the following configurable BACnet objects: AI / BI / AO / BO / AV / BV, Trend Logs, and Schedules

Integrated Bi-directional Pressure Sensor

0 ... 1.3 inches-water (0 ... 320 Pa)
Can measure differential pressure directly without need for a separate sensor

Integrated Actuator

Belimo actuator featuring a brushless DC motor with integrated position feedback and 45 inch-pounds (5 N-m) of torque

Cylon® Intelligent Room Sensor support

Up to 750 Strategy Blocks

Up to 15 Trendlogs

1024 entries per Trendlog

Data Security

Strategy and setpoints backed up in Flash

No Hardware I/O Jumpers

Hardware points are automatically configured by the downloaded strategy