

TECHNICAL DATA SHEET

DS0137 rev 25

Cylon® FBTi-Series



DESCRIPTION

The FBTi Series is a family of BACnet® Unitary Controller with native BACnet/IP communications support. BTL listed as BACnet Building Controller (B-BC), they perfectly complement the FBVi (IP VAV controller) in the IP terminal unit controller range. Utilizing the patented UniPut technology, it provides reliable and cost effective control solutions for Fan Coil Units, Chilled Ceilings, Heat Pumps and Roof Top Units.

Dual IP ports with failsafe switchover connects the FBTi to any open BACnet network and also provides seamless integration to the ABB Cylon system.

APPLICATION

The FBTi Series consists of 2 different input / output point versions. The 9 point version supports most Fan Coil Unit and Chilled Ceiling applications, while the 16 point version is optimized for higher end Fan Coil Unit, Heat Pump and Roof Top Units. Leveraging the ABB Cylon FusionAir sensor series, the FBTi can execute IAQ applications such as Demand Control Ventilation and optimize energy usage in the controlled terminal equipment. The FBTi is fully supported by the CXpro^{HD} programming software.

FBTi-7T7-1U1R	16 point IP Terminal Unit Controller
FBTi-6T1-1U1R	9 point IP Terminal Unit Controller

The FBTi-7T7-1U1R features 7 UniPuts™ with Triac, and 7 Universal Inputs. FBTi-6T1-1U1R features 6 UniPuts™ with Triac, and 1 Universal Input. Both feature 1 UniPut™ without Triac, a 240 V AC relay and a dedicated port for ABB Cylon® FusionAir sensors.

Dual IP ports

Failsafe switchover of IP communications in event of power interruption

Reference Applications

Available ASHRAE 36 applications support FCU and RTU applications for download

FusionAir Sensor Port

Enables IAQ applications using CO₂ and VOC sensors in FusionAir Touch Free User Mobile App

Data Security

Strategy and setpoints backed up in Flash

UniPut™

ABB's patented technology that can be configured as analog / digital outputs or voltage inputs automatically by the downloaded strategy

UniPut™ with Triac

24 V AC @ 500 mA (powered)

Universal Inputs

Configurable as analog (voltage or current) or digital inputs. Automatically configured by the downloaded strategy

Relay Digital Output

Switch high inrush loads up to 240 V AC, 8 Amps

Up to 750 Strategy Blocks

Up to 15 Trendlogs

1024 entries per Trendlog