



eco² Rooftop Unit Controller PICS/ BIBBs Statement

TECHNICAL DATA

New Release

Form 100.50-TD5 (705)

The YORK eco² controller communicates with other devices using the BACnet® protocol developed by ASHRAE®. In accordance with the BACnet standards, any product using BACnet requires a Protocol Implementation Conformance Statement (PICS), which this document satisfies. The PICS document identifies the objects/options implemented by the device. In addition, a set of BACnet Interoperability Building Blocks (BIBBs) is included with this document.

The eco² controller uses BACnet MS/TP for the data link layer. Each device can expose its data to a BACnet network by using both standard and proprietary BACnet objects. Proprietary BACnet objects are used exclusively by YORK devices and require data to be presented in a specific data format. The following standard objects are supported; AI (Analog Input), AV (Analog Value), BI (Binary Input), BV (Binary Value) FI (File) and DE (Device). All these are used to promote system interoperability.

Table 1 – Product Description

Vendor Name	York International Corporation
Products Name(s)	OCSX eco ²
Model Number(s)	331-02496-101
Software Version	1.1.3.23-A
Application Version	1
BACnet Protocol Version	1

BACnet Standardized Device Profile (Annex L)

The eco² provides the functionality of a B-ASC device (BACnet Application Specific Controller). Trending and Scheduling implementation uses a proprietary method.

Table 2 – Required BACnet Building Controller BIBBs Support

The table below defines the BIBBs that are supported by the eco² controller.

Application Service	Designation
Data Sharing – Read Property – A	DS-RP-A
Data Sharing – Read Property – B	DS-RP-B
Data Sharing – Read Property Multiple – B	DS-RPM-B
Data Sharing – Write Property – A	DS-WP-A
Data Sharing – Write Property – B	DS-WP-B
Data Sharing – Write Property Multiple – B	DS-WPM-B
Alarm and Event – Notification – B (Confirmed Only)	AE-N-I-B*
Alarm and Event – ACK – B	AE-ACK-B
Alarm and Event – Alarm Summary – B	AE-ASUM-B
Alarm and Event – Information – B	AE-INFO-B
Device Management – Dynamic Device Binding – A	DM-DDB-A
Device Management – Dynamic Device Binding – B	DM-DDB-B
Device Management – Dynamic Object Binding – B	DM-DOB-B
Device Management – Device Communication Control - B	DM-DCC-B
Device Management – Private Transfer A (Unconfirmed only)	DM-PT-A
Device Management – Private Transfer B (Unconfirmed only)	DM-PT-B
Device Management – UTCTime Synchronization – B	DM-UTC-B
Device Management – Time Synchronization – B	DM-TS-B
Device Management – Reinitialize Device - B	DM-RD-B
Device Management – Backup and Restore – B	DM-BR-B
Network Management – Connection Establishment – A	NM-CE-A

** The eco² does not support the Property Event Time Stamps within the AI, AV, BI, and BV objects that is a requirement of intrinsic reporting and, therefore, does not fully support the functionality of the AE-N-I-B, BIBB.*

Segmentation Capability

This product does not support Segmentation.

Table 3 – BACnet Standard Object Types Supported

Object Type	Optional Properties Supported	Writable Properties
Analog Input	Time DelayNotification ClassHigh LimitLow Limit-Dead bandLimit EnableEvent EnableAcked TransitionsNotify Type	Out of Service
Analog Value	Time DelayNotification ClassHigh LimitLow Limit-Dead bandLimit EnableEvent EnableAcked TransitionsNotify Type	Present ValueOut of Service
Binary Input	Time DelayNotification ClassAlarm ValueEvent EnableAcked Transitions	
Binary Value	Time DelayNotification ClassAlarm ValueEvent EnableAcked TransitionsNotify Type	Present ValueOut of Service
Device	Local TimeLocal DateUTC OffsetDay Light Saving StatusMax MastersMax Info framesConfiguration FilesLast Restore TimeBackup Failure Timeout	

Data Link Layer Options

MS/TP Master (Clause 9), baud rate(s): 9600, 19200, 38400, 76800.

Device Address Binding

This product supports Static Device Binding.

Networking Options

This product does not support router, tunneling, or BACnet/IP.

Character Sets Supported

The ANSI X3.4 character set is supported.

