

Group: Controls

Part Number: ED 15126

Date: April 2010

Supersedes: New

**Maverick[®] I Commercial Packaged Rooftop
Systems Unit Controller
Protocol Implementation Conformance Statement (PICS)
ANSI/ASHRAE 135-2004, BACnet[®]**

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Revision History

ED15126

April 2010

Initial release.

Notice

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Limited Warranty

Consult your local Daikin Representative for warranty details. Refer to Form 933-430285Y. To find your local Daikin Representative, go to www.DaikinApplied.com

Reference Documents

Company	Number	Title	Source
American Society of Heating, Refrigerating and Air-Conditioning Engineers	ANSI/ASHRAE 135-2004	BACnet- A Data Communication Protocol for Building Automation and Control Networks	www.ashrae.org
Daikin Applied	OM 1047	Maverick I Rooftop Unit Controller Operation Manual	www.DaikinApplied.com
Daikin Applied	ED 15125	Maverick I Rooftop Unit Controller Protocol Document	www.DaikinApplied.com

Protocol Implementation Conformance Statement (PICS)

This section contains the Protocol Implementation Conformance Statement (PICS) for the Maverick I Rooftop Unit Controller from Daikin Applied as required by ANSI/ASHRAE (American National Standards Institute/American Society of Heating, Refrigeration, and Air Conditioning Engineers) Standard 135-2004, BACnet; A Data Communication Protocol for Building Automation and Control Networks.

BACnet Protocol Implementation Conformance Statement

Date: April 2010
Vendor Name: Daikin Applied
Product Name: Rooftop Unit Controller
Product Model Number: RTU-C
Application Software Version: 6.47
Firmware Revision: 1.0
BACnet Protocol Revision: Version 1
Revision 4

Product Description

The Maverick I Rooftop Unit Controller with optional BACnet Communication Module is a microprocessor-based controller designed to operate Daikin Applied Rooftop units and be integrated into BACnet building automation systems.

The controller provides normal temperature, static pressure and ventilation control and alarm monitoring with alarm-specific component shutdown in critical system conditions. Access to temperatures, pressures, operating states, alarms, and control parameters are available through an equipment-mounted keypad/display and the BACnet control network.

BACnet Standardized Device Profile

- BACnet Operator Workstation (B-OWS)
- BACnet Building Controller (B-BC)
- BACnet Advanced Application Specific Controller (B-AAC)
- BACnet Application Specific Controller (B-ASC)
- BACnet Smart Sensor (B-SS)
- BACnet Smart Actuator (B-SA)

Refer to the section below entitled BACnet Interoperability Building Blocks (BIBBs) Supported for a complete listing of BIBBS.

BACnet Interoperability Building Blocks (BIBBs) Supported

BIBB Name	Designation
Data Sharing – ReadProperty – B	DS-RP-B
Data Sharing – ReadPropertyMultiple – B	DS-RPM-B
Data Sharing – WriteProperty – B	DS-WP-B
Data Sharing – WritePropertyMultiple – B	DS-WPM-B
Device Management – Dynamic Device Binding – B	DM-DDB-B
Device Management – Dynamic Object Binding – B	DM-DOB-B
Device Management – Dynamic Communication Control – B	DM-DCC-B
Device Management – ReinitializeDevice – B	DM-RD-B

Standard Object Types Supported

Object-Type	Creatable	Deleteable	Optional Properties Supported	Writable Properties Not Required To Be Writable
Analog Input	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability Min_Pres_Value Max_Pres_Value	
Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability	Present_Value
Binary Value	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability Inactive_Text Active_Text	Present_Value
Device	<input type="checkbox"/>	<input type="checkbox"/>	Location	Location
Multi-State Value	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability State_Text	Present_Value

Note: Although all the above standard object types are supported they may not be used.

Data Link Layer Options

- BACnet IP, (Annex J)
- ISO 8802-3, Ethernet (Clause 7)
- MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400 & 76800

Segmentation Capability

- Segmented requests supported Window Size:
- Segmented responses supported Window Size:

Device Address Binding

Static Device Binding Yes
 No

Networking Options

- Router, Clause 6 – List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)
 - Does the BBMD Support registration by Foreign Devices? Yes No

Character Sets Supported

- ANSI X3.4 IBM™/Microsoft™ DBCS ISO 8859-1
- ISO 10646 (UCS-2) ISO 10646 (UCS-4) JIS C 6226

Note: Support for multiple character sets does not imply they can be supported simultaneously.

This document contains the most current product information as of this printing. For the most up-to-date product information, please go to **www.DaikinApplied.com**.

