



Sales and Engineering Data Sheet

ED 15057-4

Group: **Controls**

Part Number: **ED 15057**

Date: **August 2016**

MicroTech® II Chiller Unit Controller

Protocol Implementation Conformance Statement (PICS)

ANSI/ASHRAE 135-2004, BACnet®

Centrifugal Chillers

Screw Chillers

Global Chillers



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Revision History

ED 15057	Sept 2002	Preliminary release.
ED 15057-1	Nov 2002	
ED 15057-2	Jun 2006	
ED 15057-3	Mar 2008	
ED 15057-4	Aug 2016	Updated branding and formatting.

Notice

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Limited Warranty

Consult your local Daikin Applied representative for warranty details. To find your local Daikin Applied 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	IM 735	MicroTech II Chiller Unit Controller LonWORKS Communication Module	www.DaikinApplied.com
Daikin Applied	IM 906	MicroTech II Chiller Unit Controller BACnet Communication Module, PN 350147407 (current)	www.DaikinApplied.com
Daikin Applied	IM 736	MicroTech II Chiller Unit Controller BACnet Communication Module, PN 350147406 (discontinued)	www.DaikinApplied.com
Daikin Applied	IM 736	MicroTech II Chiller Unit Controller BACnet Communication Module, PN 350147406 (discontinued)	www.DaikinApplied.com
Daikin Applied	IM 837	MicroTech II Chiller Unit Controller BACnet IP/Ethernet Communication Module, PN 350147406	www.DaikinApplied.com
Daikin Applied	IOMM ACZ/AGZ	MicroTech II Air-Cooled Condensing Unit Installation, Operation, and Maintenance Manual	www.DaikinApplied.com
Daikin Applied	OMM ACZ	MicroTech II Air-Cooled Condensing Unit Operation and Maintenance Manual	www.DaikinApplied.com
Daikin Applied	IOMM AGZ	MicroTech II Air-Cooled Scroll Chiller Installation, Operation, and Maintenance Manual	www.DaikinApplied.com
Daikin Applied	OMM WGZ	MicroTech II Water-Cooled Scroll Chiller Operation and Maintenance Manual	www.DaikinApplied.com
Daikin Applied	IOMM WPV	MicroTech II Centrifugal Chiller Installation, Operation, and Maintenance Manual	www.DaikinApplied.com
Daikin Applied	IOMM WSC/WDC	MicroTech II Chiller Unit Controller Installation, Operation, and Maintenance Manual	www.DaikinApplied.com
Daikin Applied	OM AGS	MicroTech II Air-Cooled Screw Chiller Operating Manual	www.DaikinApplied.com
Daikin Applied	OM CentrifMicro II	MicroTech II Unit Controller for Centrifugal Chillers and Templifiers Operating Manual	www.DaikinApplied.com
Daikin Applied	OM WGS	MicroTech II Water-Cooled Screw Chiller Operating Manual	www.DaikinApplied.com
Daikin Applied	IOM WMC	MicroTech II Magnetic Bearing Compressor Chiller Installation, Operation, and Maintenance Manual	www.DaikinApplied.com
Daikin Applied	IOMM TSC	MicroTech II Templifier Single Compressor Centrifugal Installation, Operation, and Maintenance Manual	www.DaikinApplied.com
Daikin Applied	OMM TGZ	MicroTech II Templifier TGZ Heat Recovery Water Heaters Operating Manual	www.DaikinApplied.com

This section contains the Protocol Implementation Conformance Statement (PICS) for the MicroTech II Chiller Unit Controller of Daikin Applied as required by ANSI/ASHRAE Standard 135-2004, BACnet: A Data Communication Protocol for Building Automation and Control Networks.

BACnet Protocol Implementation Conformance Statement

Date:	June 2015
Vendor Name:	Daikin Applied
Product Name:	MicroTech II Chiller Unit Controller
Product Model Number:	MTII Chiller UC
Applications Software Version:	2.00
Firmware Revision:	AmBCM-16 - BmBCM-485-15g
BACnet Protocol Revision:	Version 1 Revision 4

Product Description

The MicroTech II Chiller Unit Controller with optional BACnet Communication Module is a microprocessor-based controller designed to operate Daikin Applied chillers and be integrated into BACnet building automation systems.

BACnet Standardized Device Profile

The MicroTech II Chiller Unit Controller with BACnet Communication Module supports the BACnet Interoperability Building Blocks (BIBBS) included in the BACnet Advanced Application Controller (B-AAC) profile. The following section provides a complete listing of BIBBS.

- 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)

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
Alarm and Event – Notification Internal – B	AE-N-I-B
Alarm and Event – ACK – B	AE-ACK-B
Alarm and Event – Information – B	AE-INFO-B
Device Management – Dynamic Device Binding – B	DM-DDB-B
Device Management – Dynamic Object Binding – B	DM-DOB-B
Device Management – DeviceCommunicationControl – B	DM-DCC-B
Device Management – TimeSynchronization – B	DM-TS-B
Device Management – UTCTimeSynchronization – B	DM-UTC-B
Device Management – ReinitializeDevice – B	DM-RD-B
Device Management – Restart – B	DM-R-B

Standard Object Types Supported

Object-Type	Creatable	Deleteable	Optional	Writeable	Proprietary
Analog Input	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability		Read_Only ¹
Analog Output	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability	Relinquish Default	Read_Only ¹
Binary Input	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability Inactive_Text Active_Text		Read_Only ¹
Binary Value	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability Inactive_Text Active_Text Priority Array Relinquish Default Profile_Name	Present Value Relinquish Default	Read_Only ¹
Device	<input type="checkbox"/>	<input type="checkbox"/>	Description Location Local_Time Local_Date UTC_Offset Daylight_Savings_Status Max_Master Max_Info_Frames	Location	
Multi-state Input	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability State_Text		Read_Only ¹
Multi-state Output	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability State_Text	Relinquish Default	Read_Only ¹

1. Proprietary property used to indicate whether the Present_Value is read-only (0), writeable but not commandable (1) or writeable and commandable (2).

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

- Yes Static Device Binding
- No

Networking Options

- Router, Clause 6
Routing Configurations:
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)

Registrations 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.

Non-BACnet Equipment/Network(s) Support

- Communication Gateway
- Non-BACnet equipment/networks(s):



Daikin Applied Training and Development

Now that you have made an investment in modern, efficient Daikin equipment, its care should be a high priority. For training information on all Daikin HVAC products, please visit us at www.DaikinApplied.com and click on Training, or call 540-248-9646 and ask for the Training Department.

Warranty

All Daikin equipment is sold pursuant to its standard terms and conditions of sale, including Limited Product Warranty. Consult your local Daikin Applied representative for warranty details. To find your local Daikin Applied representative, go to www.DaikinApplied.com.

Aftermarket Services

To find your local parts office, visit www.DaikinApplied.com or call 800-37PARTS (800-377-2787). To find your local service office, visit www.DaikinApplied.com or call 800-432-1342.

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.

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