

Group: Controls

Part Number: ED 15057

Date: February 2008

Supersedes: ED 15057-2

**MicroTech II<sup>®</sup>  
Centrifugal Chiller Unit Controller  
Screw Chiller Unit Controller  
Global Chiller Unit Controller**

**Protocol Implementation Conformance Statement (PICS)  
ANSI/ASHRAE 135-2001, BACnet<sup>®</sup>**

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This document contains the Protocol Implementation Conformance Statement (PICS) for MicroTech II<sup>®</sup> centrifugal, screw, and scroll chillers from McQuay International as required by ANSI/ASHRAE (American National Standards Institute/American Society of Heating, Refrigeration, and Air Conditioning Engineers) Standard 135-2001, BACnet; A Data Communication Protocol for Building Automation and Control Networks.

## Notice

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McQuay International reserves the right to change any information contained herein without prior notice. The user is responsible for determining whether this product is appropriate for his or her application.

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## Limited Warranty

Consult your local McQuay Representative for warranty details. Refer to Form 933-430285Y. To find your local McQuay Representative, go to [www.mcquay.com](http://www.mcquay.com).

# BACnet Protocol Implementation Conformance Statement

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Date: February, 2008  
Vendor Name: McQuay International  
Product Name: MicroTech II Chiller Unit Controller  
Product Model Number: MTII Chiller UC  
Applications Software Version:  
Firmware Revision:  
BACnet Protocol Revision: Version 1  
Revision 2 (BACnetIP/ISO-8802.3 Ethernet version)  
Revision 4 (MS/TP version)

## Product Description

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

## 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	Dynamically Creatable	Dynamically Deleteable	Optional Properties Supported	Writable Properties Not Required To Be Writable
Analog Input	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability	
Analog Output	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability	Relinquish Default
Binary Input	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability Inactive_Text Active_Text	
Binary Value	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability Inactive_Text Active_Text Priority Array Relinquish Default	Present Value Relinquish Default
Device	<input type="checkbox"/>	<input type="checkbox"/>	Description Location Local_Time Local_Date UTC_Offset Daylight_Savings_Status Max_Master Max_Info_Frames Proprietary Property #1000 (Alarm Enable) Proprietary Property #1001 (MS/TP MAC address) Proprietary Property #1002 (MS/TP Baud Rate) Proprietary Property #1005 (Password)	Location Max_Master Max_Info_Frames Object_Identifier UTC_Offset Proprietary Property #1000 (Boolean datatype) Proprietary Property #1001 (Unsigned datatype) Proprietary Property #1002 (Unsigned datatype) Proprietary Property #1002 (Character String datatype up to 9 characters)
Multi-state Input	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability State_Text	
Multi-state Output	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability State_Text	Relinquish Default

# Proprietary Object Types Supported

Object-Type	Dynamically Creatable	Dynamically Deleteable	Proprietary Properties Supported
Application Object (Proprietary Object Type 200), Instance 1	<input type="checkbox"/>	<input type="checkbox"/>	<p>1001 to 1054</p> <p>The numbers 1 to 54 correspond to the instances of the standard BACnet Objects, i.e. Analog Input 1, Analog Input 2, etc. These 1000-based proprietary properties are all Integer datatypes and are the unscaled Present_Values of the corresponding Standard objects.</p> <p>2001-2054</p> <p>The numbers 1 to 54 correspond to the instances of the standard BACnet Objects, i.e. Analog Input 1, Analog Input 2, etc. These 2000-based proprietary properties are all Character String datatypes and are the Description properties of the corresponding Standard objects.</p>



This document contains the most current product information as of this printing. For the most current product information, please go to **[www.mcquay.com](http://www.mcquay.com)**.

