

BACnet Protocol Implementation Conformance Statement

Vendor Name: McQuay International
Product Name: MicroTech Unit Controller
Product Model Number: Varies

Product Description

The MicroTech Unit Controller provides control for a variety of HVAC applications. It is connected to the BACnet network through a BACdrop gateway for BACnet. The MicroTech Unit Controller will appear to the BACnet network as a BACnet node offering BACnet services.

The MicroTech Unit Controller will appear to be BACnet riding on ISO 8802-3.

BACnet Conformance Class Supported

Class 1	<input type="checkbox"/>	Class 4	<input type="checkbox"/>
Class 2	<input type="checkbox"/>	Class 5	<input type="checkbox"/>
Class 3	<input checked="" type="checkbox"/>	Class 6	<input type="checkbox"/>

BACnet Functional Groups Supported

Clock	<input type="checkbox"/>	Files	<input type="checkbox"/>
HHWS	<input type="checkbox"/>	Reinitialize	<input type="checkbox"/>
PCWS	<input type="checkbox"/>	Virtual Operator Interface	<input type="checkbox"/>
Event Initiation	<input type="checkbox"/>	Virtual Terminal	<input type="checkbox"/>
Event Response	<input type="checkbox"/>	Device Communications	<input type="checkbox"/>
COV Event Initiation	<input type="checkbox"/>	Time Master	<input type="checkbox"/>
COV Event Response	<input type="checkbox"/>		

BACnet Standard Application Services Supported

Application Service	Initiate Requests	Executes Requests
AcknowledgeAlarm	<input type="checkbox"/>	<input type="checkbox"/>
ConfirmedCOVNotification	<input type="checkbox"/>	<input type="checkbox"/>
ConfirmedEventNotification	<input type="checkbox"/>	<input type="checkbox"/>
GetAlarmSummary	<input type="checkbox"/>	<input type="checkbox"/>
GetEnrollmentSummary	<input type="checkbox"/>	<input type="checkbox"/>
SubscribeCOV	<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedCOVNotification	<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification	<input type="checkbox"/>	<input type="checkbox"/>
AtomicReadFile	<input type="checkbox"/>	<input type="checkbox"/>
AtomicWriteFile	<input type="checkbox"/>	<input type="checkbox"/>
AddListElement	<input type="checkbox"/>	<input type="checkbox"/>
RemoveListElement	<input type="checkbox"/>	<input type="checkbox"/>
CreateObject	<input type="checkbox"/>	<input type="checkbox"/>
DeleteObject	<input type="checkbox"/>	<input type="checkbox"/>
ReadProperty	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ReadPropertyConditional	<input type="checkbox"/>	<input type="checkbox"/>
ReadPropertyMultiple	<input type="checkbox"/>	<input checked="" type="checkbox"/>
WriteProperty	<input type="checkbox"/>	<input checked="" type="checkbox"/>
WritePropertyMultiple	<input type="checkbox"/>	<input checked="" type="checkbox"/>

BACnet Standard Application Services Supported - cont.

Application Service	Initiate Requests	Executes Requests
DeviceCommunicationControl	<input type="checkbox"/>	<input type="checkbox"/>
ConfirmedPrivateTransfer	<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedPrivateTransfer	<input type="checkbox"/>	<input type="checkbox"/>
ReinitializeDevice	<input type="checkbox"/>	<input type="checkbox"/>
ConfirmedTextMessage	<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedTextMessage	<input type="checkbox"/>	<input type="checkbox"/>
TimeSynchronization	<input type="checkbox"/>	<input type="checkbox"/>
Who-Has	<input type="checkbox"/>	<input checked="" type="checkbox"/>
I-Have	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Who-Is	<input type="checkbox"/>	<input checked="" type="checkbox"/>
I-Am	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VT-Open	<input type="checkbox"/>	<input type="checkbox"/>
VT-Close	<input type="checkbox"/>	<input type="checkbox"/>
VT-Data	<input type="checkbox"/>	<input type="checkbox"/>
Authenticate	<input type="checkbox"/>	<input type="checkbox"/>
RequestKey	<input type="checkbox"/>	<input type="checkbox"/>

Standard Object Types Supported

Object Type	Supported	Dynamically Creatable	Dynamically Deleteable	Optional Properties Supported	Writable Properties
Analog Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	description	_____
Analog Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	description	present-value
Analog Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	description	_____
Binary Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	description, active-text, inactive-text	_____
Binary Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	description, active-text, inactive-text	present-value
Binary Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	description, active-text, inactive-text	_____
Calendar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Command	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Device	Yes	N/A	N/A	description, location	_____
Event Enrollment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
File	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Loop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Multi-state Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Multi-state Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Notification Class	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____

Data Link Layer Option

- | | | |
|---|--|---|
| <input type="checkbox"/> ISO 8802-3, 10Base5 | <input type="checkbox"/> ARCNET, coax star | <input type="checkbox"/> MS/TP master, baud rate(s): _____ |
| <input type="checkbox"/> ISO 8802-3, 10Base2 | <input type="checkbox"/> ARCNET, coax bus | <input type="checkbox"/> MS/TP slave, baud rate(s): _____ |
| <input checked="" type="checkbox"/> ISO 8802-3, 10BaseT | <input type="checkbox"/> ARCNET, twisted pair star | <input type="checkbox"/> Point-To-Point, EIA 232, baud rate(s): _____ |
| <input type="checkbox"/> ISO 8802-3, Fiber | <input type="checkbox"/> ARCNET, twisted pair bus | <input type="checkbox"/> Point-To-Point, modem, baud rate(s): _____ |
| | <input type="checkbox"/> ARCNET, fiber star | <input type="checkbox"/> LonTalk, medium: _____ |
- Other

Character Sets Supported

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

- ANSI X3.4 IBM/Microsoft DBCS JIS C 6226 ISO 10646 (ICS-4) ISO 10646 (UCS2)
- ISO 8859-1

Special Functionality

- Segmented Requests Supported Yes No Window Size _____
- Segmented Responses Supported Yes No Window Size _____
- Router

Describe the supported routing capabilities:

None.

Property Range Restrictions:

Restrictions on the ranges of commandable properties are enforced by the MicroTech Unit Controller software program. These range restrictions are documented in the BACnet Data Information Packets for the various MicroTech Unit Controller software applications. A list of these BACnet Data Information Packets follows:

MicroTech Unit Controller Application

Air-Cooled Screw Chiller (for models ALS)
Water-Cooled Screw Chiller (for models PFS-B, PFS-C, WHS)
Air-Cooled Global Chiller
Large Tonnage Water-Cooled Screw Chiller (for models PES)
Series-100 Centrifugal Chiller and LLLB Panel
Series-200 Centrifugal Chiller
Reciprocating Chiller (U.S. manufactured models)
Self-Contained Air Conditioning Unit
Applied Rooftop Unit
Unit Ventilator
Remote Monitoring and Sequencing Panel
Remote Monitoring and Control Panel
Chiller System Controller

**BACnet Data
Information Packet**

BD 01
BD 02
BD 03
BD 04
BD 05
BD 06
BD 07
BD 08
BD 09
BD 10
BD 11
BD 12
BD 13