

BACnet Protocol Implementation Conformance Statement

Date: 07/25/2018

Vendor Name: Yaskawa

Product Name: AC Motor Controller

Product Model Number: HV600

Application Software Version: VSEA010xx **Firmware Revision:** 2.01 **BACnet Protocol Revision:** 14

Product Description:

The Yaskawa HV600 Drive is a high performance product specifically designed for commercial building automation applications. The Yaskawa BACnet feature connects the HV600 Drive to a standard BACnet MS/TP network. These products may be fully controlled and monitored over BACnet. All drive parameters are available for reading and writing.

BACnet Standardized Device Profile (Annex L):

- BACnet Cross-Domain Advanced Operator Workstation (B-XAWS)
- BACnet Advanced Operator Workstation (B-AWS)
- BACnet Operator Workstation (B-OWS)
- BACnet Operator Display (B-OD)
- BACnet Advanced Life Safety Workstation (B-ALSWS)
- BACnet Life Safety Workstation (B-LSWS)
- BACnet Life Safety Annunciator Panel (B-LSAP)
- BACnet Advanced Access Control Workstation (B-AACWS)
- BACnet Access Control Workstation (B-ACWS)
- BACnet Access Control Security Display (B-ACSD)
- BACnet Building Controller (B-BC)
- BACnet Advanced Application Controller (B-AAC)
- BACnet Application Specific Controller (B-ASC)
- BACnet Smart Actuator (B-SA)
- BACnet Smart Sensor (B-SS)
- BACnet Advanced Life Safety Controller (B-ALSC)
- BACnet Life Safety Controller (B-LSC)
- BACnet Advanced Access Control Controller (B-AACC)
- BACnet Access Control Controller (B-ACC)
- BACnet Router (B-RTR)
- BACnet Gateway (B-GW)
- BACnet Broadcast Management Device (B-BBMD)
- BACnet Access Control Door Controller (B-ACDC)
- BACnet Access Control Credential Reader (B-ACCR)
- BACnet General (B-GENERAL)

List all BACnet Interoperability Building Blocks Supported (Annex K):

- Data Sharing-ReadProperty-B (DS-RP-B)
- Data Sharing-WriteProperty-B (DS-WP-B)
- Data Sharing-ReadPropertyMultiple-B (DS-RPM-B)
- Data Sharing-WritePropertyMultiple-B (DS-WPM-B)
- Data Sharing-Change Of Value-B (DS-COV-B)
- Data Sharing-Change Of Value Property-B (DS-COVP-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-ReinitializeDevice-B (DM-RD-B)
- Device Management-TimeSynchronization-B (DM-TS-B)

Segmentation Capability:

- Able to transmit segmented messages Window Size _____
 Able to receive segmented messages Window Size _____

Standard Object Types Supported:

- Device Object
 - Optional Writeable:
 - Max_Info_Frames
 - Max_Master
- Analog Input Object
 - Optional properties supported:
 - COV_Increment
 - Optional Writeable:
 - COV_Increment – supported on various instances
- Analog Output Object
- Analog Value Object
 - Optional properties supported:
 - COV_Increment
 - Optional Writeable:
 - COV_Increment – supported on various instances
- Binary Input Object
- Binary Output Object
- Binary Value Object

Data Link Layer Options:

- ARCNET (ATA 878.1), 2.5 Mb. (Clause 8)
 ARCNET (ATA 878.1), EIA-485 (Clause 8), baud rate(s) _____
 BACnet IP, (Annex J)
 BACnet IP, (Annex J), BACnet Broadcast Management Device (BBMD)
 BACnet IP, (Annex J), Network Address Translation (NAT Traversal)
 BACnet IPv6, (Annex U)
 BACnet IPv6, (Annex U), BACnet Broadcast Management Device (BBMD)
 BACnet/ZigBee (Annex O) _____
 Ethernet, ISO 8802-3 (Clause 7)
 LonTalk, ISO/IEC 14908.1 (Clause 11), medium: _____
 MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 76800
 MS/TP slave (Clause 9), baud rate(s): _____
 Point-To-Point, EIA 232 (Clause 10), baud rate(s): _____
 Point-To-Point, modem, (Clause 10), baud rate(s): _____
 Other: _____

Device Address Binding:

Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.) 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

Character Sets Supported:

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

- | | | |
|---|---|-------------------------------------|
| <input checked="" type="checkbox"/> ISO 10646 (UTF-8) | <input type="checkbox"/> IBM™/Microsoft™ DBCS | <input type="checkbox"/> ISO 8859-1 |
| <input type="checkbox"/> ISO 10646 (UCS-2) | <input type="checkbox"/> ISO 10646 (UCS-4) | <input type="checkbox"/> JIS X 0208 |

Gateway Options:

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:

- Not supported

If this product is a communication gateway which presents a network of virtual BACnet devices, a separate PICS shall be provided that describes the functionality of the virtual BACnet devices. That PICS shall describe a superset of the functionality of all types of virtual BACnet devices that can be presented by the gateway.

Network Security Options:

- Non-secure Device - is capable of operating without BACnet Network Security
- Secure Device - is capable of using BACnet Network Security (NS-SD BIBB)
 - Multiple Application-Specific Keys
 - Supports encryption (NS-ED BIBB)
 - Key Server (NS-KS BIBB)