

3. Parameters

3.1. Parameter Settings – BACnet MSTP

The following parameters should be adjusted for correct operation.

<i>Index</i>	<i>Parameter</i>	<i>Description</i>
P1-12	Operation Mode	Set this parameter to 6 to activate BACnet MS/TP operation
P5-01	Drive Address	This parameter is used to set the drive address
P5-03	Baudrate	This parameter is used to set up communication baudrate. (Auto baudrate is not supported)
P5-04	Data Format	Use this parameter to set RS485 communication data format
P5-07	Fieldbus Ramp Control	Set to 1 if BACnet ramp control over acceleration and deceleration rates is required
P5-09	BACnet Device Instance ID Low	P5-09 and P5-10 are used to setup drive device instance ID value. Instance ID = P5-10 * 65536 + P5-09. Range from 0 ~ 4194304. Default value is set to 1.
P5-10	BACnet Device Instance ID High	
P5-11	Max Master	Set BACnet MS/TP max master property, range from 1 ~ 127. Default set to 127.

3.2. Parameter Settings – BACnet IP

<i>Index</i>	<i>Parameter</i>	<i>Description</i>
P1-12	Operation Mode	Set this parameter to 4 to active BACnet IP operation
P5-07	Fieldbus Ramp Control	Set to 1 if BACnet ramp control is needed

3.3. IP Address Setting – BACnet IP

In order to set the BACnet IP Address, the IP configuration software is available – contact your local Sales Partner or refer to www.bardac.com

6. BACnet Protocol Implementation Conformance Statement

Date: 15th June, 2011
Vendor Name: Invertek Drives Ltd
Product Name: OPTIDRIVE HVAC
Product Model Number: ODV-2-xxxxx-xxxxx-xx
Application Software Version: 1.10
Firmware Revision: 1.10
BACnet Protocol Revision: 7
Product Description: Invertek Optidrive HVAC

BACnet Standardized Device Profile (Annex L):

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

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

DS-RP-B, DS-WP-B, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-RD-B

Segmentation Capability:

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

Standard Object Types Supported:

An object type is supported if it may be present in the device. For each standard Object Type supported provide the following data:

- 1) Whether objects of this type are dynamically creatable using the CreateObject service
- 2) Whether objects of this type are dynamically deletable using the DeleteObject service
- 3) List of the optional properties supported
- 4) List of all properties that are writable where not otherwise required by this standard
- 5) List of all properties that are conditionally writable where not otherwise required by this standard
- 6) List of proprietary properties and for each its property identifier, datatype, and meaning
- 7) List of any property range restrictions

Data Link Layer Options:

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ATA 878.1, EIA-485 ARCNET (Clause 8), baud rate(s):
- 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):
- LonTalk, (Clause 11), medium:
- BACnet/ZigBee (ANNEX O)
- 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
- BACnet/IP Broadcast Management Device (BBMD)

Does the BBMD support registrations by Foreign Devices? Yes No

Does the BBMD support network address translation? Yes No

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)

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 ISO 8859-1
- ISO 10646 (UCS-2) ISO 10646 (UCS-4) JIS X 0208

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

NOTES



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