

BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT



Date: March 6, 2018

Vendor Name: DENT Instruments

Product Name: PowerScout 12HD

Product Model Numbers: PS12HD

Application Software Version: 0.8.3 Firmware Revision: 1.013 BACnet Protocol Revision: 14

Product Description: Three phase ANSI C12.20-2010 Class 0.2 revenue grade power meter. Supports BACnet MS/TP, BACnet/IP, Modbus RTU, and Modbus TCP communication protocols.

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):

ReadProperty (DS-RP-B)	Execute
ReadPropertyMultiple (DS-RPM-B)	Execute
WriteProperty (DS-WP-B)	Execute
Who-Has (DM-DOB-B)	Execute
I-Have (DM-DOB-B)	Initiate
Who-Is (DM-DDB-B)	Execute
I-Am (DM-DDB-B)	Initiate

Segmentation Capability:

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

Standard Object Types Supported:

Device Object

Optional Properties	Writable Properties	Property Range Restrictions
	Object_Identifier	
Description	Description	
Location	Location	
Max_Master	Max_Master	
Max_Info_Frames	Max_Info_Frames	
	Object Name	

Analog Input

Optional Properties	Writable Properties	Property Range Restrictions

Analog Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present_Value	

Binary Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present_Value	

Analog Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present_Value	

Positive Integer Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present_Value	

Multi-state Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present_Value	
State Text		

Bitstring Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present Value	

Structured View

Optional Properties	Writable Properties	Property Range Restrictions
	Object Name	

Data Link Layer Options:

- ☐ BACnet IP, (Annex J)
☒ BACnet IP, (Annex J), Foreign Device (PS3037-E only)
☐ 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, 115200
☐ 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.

- | | | |
|---|---|-------------------------------------|
| <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 |