BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date: November 26, 2018
Vendor Name: DENT Instruments
Product Name: PowerScout 48HD
Product Model Numbers: PS48HD
Application Software Version: 0.8.3 Firmware Revision: 1.018d 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	< 4194304
Description	Description	32 character maximum
Location	Location	32 character maximum
Max_Master	Max_Master	1-127
Max_Info_Frames	Max_Info_Frames	>= 1
	Object Name	32 character maximum

Analog Input

Optional Properties	Writable Properties	Property Range Restrictions

Analog Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present_Value	Varies by object

Binary Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present_Value	

Analog Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present_Value	Varies by object

Positive Integer Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present_Value	Varies by object

Multi-state Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present_Value	Varies by object
State Text		

BitString Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present Value	Varies by object

CharacterString Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present Value	32 character maximum

Structured View

Optional Properties	Writable Properties	Property Range Restrictions
	Object Name	32 character maximum

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, 57600, 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.

☑ ISO 10646 (UTF-8)	☐ IBM™/Microsoft™ DBCS	☐ ISO 8859-1
☐ ISO 10646 (UCS-2)	☐ ISO 10646 (UCS-4)	☐ JIS X 0208