# BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT



Date: September 10, 2019 Vendor Name: DENT Instruments Product Name: PowerScout 3HD Product Model Numbers: PS3HD Application Software Version: 0.8.3 Firmware Revision: 2.10 BACnet Protocol Revision: 15 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)
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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

<b>Optional Properties</b>	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	<b>Property Range Restrictions</b>
	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.)  $\Box$  Yes  $\blacksquare$  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? Does the BBMD support network address translation?

🛛 Yes	🗖 No
🛛 Yes	🗖 No

## Network Security Options:

 $\blacksquare$  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) □ ISO 10646 (UCS-2) □ IBM<sup>™</sup>/Microsoft<sup>™</sup> DBCS □ ISO 10646 (UCS-4) □ ISO 8859-1 □ JIS X 0208