

BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT



Date: August 28, 2014

Vendor Name: DENT Instruments

Product Name: Power Scout 3037

Product Model Numbers: PS3037-S, PS3037-E

Application Software Version: 0.5.9 Firmware Revision: 4.33 BACnet Protocol Revision: 12

Product Description: Three phase ANSI C12.20-2010 Class 0.2 revenue grade power meter. Supports BACnet MS/TP, BACnet/IP (PS3037-E only) Modbus RTU, and Modbus TCP (PS3037-E only) 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		
Location		
Max_Master	Max_Master	
Max_Info_Frames	Max_Info_Frames	

Analog Value

Optional Properties	Writable Properties	Property Range Restrictions
	Present_Value	
Description		

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
- ☐ 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