ANNEX A - PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (NORMATIVE)

(This annex is part of this Standard and is required for its use.)

BACnet Protocol Implementation Conformance Statement

Date: December 1, 2014

Vendor Name: Electro Industries / GaugeTech Product Name: Shark 50B, Shark 100B Product Model Number: E170102, E141102 Application Software Version: v6.01

Firmware Revision: v2.02 BACnet Protocol Revision: 9

Product Description:

The Shark 50B/100B is an electric meter compatible with an existing BACnet Compliant Building Automation System. The Ethernet connection conforms to the BACnet/IP standard which is complemented by many network friendly features such as password-protected web-server browser-accessible based setup screens. Once a user is logged in configuration is easy. Defaults are well vetted. Once connected to the Building Automation Network, a BACnet client like the Cimetrics BACnet Explorer or OPC server, can look at the Shark 50B/100B meters as BACnet Devices. Meter data exposed to the BACnet network includes Power, Energy, Demand, MaxDemand, Power_Factor, Flow, Consumption, Current, Voltage, and Phase.

BACnet Standardized Device Profile (Ann	iex L):					
BACnet Operator Workstation (B-OV	VS)					
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-RPM-B, DS-WP-B, DM-DDB-B						
Segmentation Capability:						
	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 NO
- 2) Whether objects of this type are dynamically deletable using the DeleteObject service NO
- 3) List of the optional properties supported see below

- 4) List of all properties that are writable where not otherwise required by this standard n/a
- 5) List of all properties that are conditionally writable where not otherwise required by this standard –n/a
- 6) List of proprietary properties and for each its property identifier, datatype, and meaning -n/a
- 7) List of any property range restrictions n/a

Object Type	Optional Properties Supported				
Analog Input					
Analog Input	Description,				
	Device_Type,				
	Reliability,				
	Min_Pres_Value				
Analog Value					
	Description				
Binary Input	D 1.4				
	Description,				
	Device_Type, Reliability,				
	Inactive_Text,				
	Active_Text,				
	Change_of_State_Time,				
	Change_of_State_Count,				
	Time_of_State_Count_Reset,				
Device	Description				

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):
☐ 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

Шı	BACnet/IP Broadcast Manag	gement I	Device (BBMD)					
Does the BBMD support registrations by Foreign Devices?					∕es □ No			
	Does the BBMD support network address translation?				☐ Yes ☐ No			
Cha	aracter Sets Supported:							
Indi	cating support for multiple of	characte	sets does not imply that the	y can al	l be supported simul	taneously.		
×	ISO 10646 (UTF-8)		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: Modbus/RTU <i>internally</i> - direct internal communication only.								
Net	work 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 Applicat	ion-Spe	cific Keys					
	☐ Supports encrypti	on (NS-	ED BIBB)					