## **BACNET PICS**

BACnet Protocol Implementation	on Conformance Statement (PICS)	
Date: Vendor Name: Product Name: Product Model Number: Applications Software Version: Firmware Revision: BACnet Protocol Revision: Product Description:	January 18, 2021 Elkor Technologies, Inc. WattsOn-MCM WattsOn-MCM V1.50 3.1.2e2	
	odular platform for power and energy metering for up to 60 channels. connecting directly to the LAN using Ethernet or Wi-Fi.	This product
<b>BACnet Standard Device Profile</b>	(Annex L):	
<ul> <li>□ BACnet Operator Workstation (B-BC)</li> <li>□ BACnet Building Controller (B-BC)</li> <li>□ BACnet Advanced Application Control</li> <li>□ BACnet Application Specific Control</li> <li>□ BACnet Smart Sensor (B-SS)</li> <li>□ BACnet Smart Actuator (B-SA)</li> </ul>	) ntroller (B-AAC)	
BACnet Interoperability Building	g Blocks Supported (Annex K):	
<ul> <li>□ Data Sharing – ReadProperty-B (</li> <li>□ Data Sharing – ReadPropertyMult</li> <li>□ Data Sharing – WriteProperty-B (</li> <li>□ Device Management – Dynamic Device Management – Dynamic Device Management – DeviceCon</li> <li>□ Device Management – Reinitialize</li> </ul>	tiple-B (DS-RPM-B) DS-WP-B) Device Binding-B (DM-DDB-B) Dipect Binding-B (DM-DOB-B) nmunicationControl-B (DM-DCC-B)	

Window Size \_\_\_\_1 Window Size \_\_\_\_

**Segmentation Capability:** 

## **Standard Object Types Supported:**

This device supports the following object types: Device, Binary Input, Analog Input, Multi-State Input, Bit String Value, Character String Value, Date-Time Value, File, and Structured View.

The following table summarizes the optional properties supported by this device, and the object types they are supported with. Not all objects of a given object type necessarily support all optional properties (indicated with an asterisk). No optional properties are implemented for object types not shown in the table below. Dynamic object creation and deletion are not supported on this device. No optional properties are implemented for File or Structured View objects.

Optional Property /	Object Type						
Optionally Writeable Property	Device	Binary Input	Analog Input	Multi-State Input	Bit String Value	Character String Value	Date-Time Value
Object Name	(R)/W						
Description	R/W		R*		R	R*	
APDU Segment Timeout	R/W						
Max Segments Accepted	R						
Serial Number	R						
Structured Object List	R						
Reliability		R	R	R	R	R	R
Active Text		R					
Inactive Text		R					
State Text				R			
Bit Text					R		

R – Optional property implemented as readable

R/W – Optional property implemented as readable and writable

(R)/W – Required read-only property implemented as readable and writable

The following summarizes the proprietary properties implemented by the device. These properties add additional information that may be useful to some clients. Their descriptions are shown below:

**Modbus Register:** The offset of the Modbus Register corresponding to the BACnet object.

**Modbus Field Length:** The number of sequential 16-bit Modbus registers used in the corresponding register.

**Modbus Field Type:** A string describing the underlying storage data type for the corresponding register.

**Modbus Decimal Places:** The number of implicit decimal places in a fixed-point Modbus register.

**Default Value:** A string indicating the default value for a BACnet object representing a user-modifiable setting.

**Networking Mode:** Indicates whether a network-related setting was assigned manually or using DHCP.

**Formula:** For objects based on a formula using the MCM's template engine, this property shows the formula from which the value is derived.

**MCM Card:** For objects with values that come from a particular MCM card or module, this property indicates the card number.

The following table summarizes the proprietary properties supported by this device, and the object types they are supported with. Not all objects of a given object type necessarily support all proprietary properties (indicated with an asterisk). No proprietary properties are implemented for object types not shown in the table below.

	D	BACnet	Object Type				
Proprietary Properties	Property ID	Encoding	Binary Input	Analog Input	Multi-State Input	Bit String Value	Character String Value
Modbus Register	8000	Unsigend Integer	R*	R*		R*	
Modbus Field Length	8001	Unsigend Integer	R*	R*		R*	R*
Modbus Field Type	8002	Character String	R*	R*		R*	
<b>Modbus Decimal Places</b>	8003	UInsigned Integer		R*			
Default Value	8004	Character String	R		R		R*
Networking Mode	8005	Character String					R*
MCM Formula	8006	Character String		R*			
MCM Card	8007	Unsigned Integer		R*		R*	R*

R – Proprietary property implemented as readable

<sup>\*</sup> Not all objects of this object type support this optional property

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Data Link Layer Options:
Device Address Binding:
Is static device binding supported? (This is currently for two-way communication with MS/TP slaves and certain other devices.) $\square$ Yes $\boxtimes$ No
Networking Options:
□ Router, Clause 6 - List all routing configurations □ Annex H, BACnet Tunneling Router over IP □ BACnet/IP Broadcast Management Device (BBMD) Does the BBMD support registrations by Foreign Devices? □ Yes □ No
Character Sets Supported:
Indicating support for multiple character sets does not imply that they can all be supported simultaneously.
☑ ANSI X3.4       ☐ IBM™/Microsoft™ DBCS       ☐ ISO 8859-1         ☐ ISO 10646 (UCS-2)       ☐ ISO 10646 (UCS-4)       ☐ JIS C 6226
Network Security Options:
<ul> <li>Non-Secure Device – is capable of operating without BACnet Network Security</li> <li>□ Secure Device – is capable of using BACnet Network Security (NS-SD BIBB)</li> <li>□ Multiple Application-Specific Keys</li> <li>□ Supports Encryption (NS-ED BIBB)</li> <li>□ Key Server (NS-KS BIBB)</li> </ul>