## **BACNET PICS**

RACnet 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-Mark II W2-E4-xxxx V1.13 V12.08 16	
	three-phase, four-quadrant, revenue grade precision power and energy meter. Cnet/IP, connecting directly to the LAN using Ethernet or Wi-Fi.	This
<b>BACnet Standard Device Profile</b>	(Annex L):	
<ul> <li>□ BACnet Operator Workstation (B-</li> <li>□ BACnet Building Controller (B-BC</li> <li>□ BACnet Advanced Application Controller</li> <li>□ BACnet Application Specific Controller</li> <li>□ BACnet Smart Sensor (B-SS)</li> <li>□ BACnet Smart Actuator (B-SA)</li> </ul>	ntroller (B-AAC)	
<b>BACnet Interoperability Buildin</b>	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 I</li> <li>□ Device Management – Dynamic I</li> <li>□ Device Management – DeviceCor</li> <li>□ Device Management – Reinitialize</li> </ul>	tiple-B (DS-RPM-B) (DS-WP-B) Device Binding-B (DM-DDB-B) Dbject Binding-B (DM-DOB-B) mmunicationControl-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, Binary Value, Analog Input, Analog Value, Multi-State Input, Multi-State Value, Character String Value, Date-Time Value, Positive Integer 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 / Optionally Writeable Property	Object Type									
	Device	Binary Input	Binary Value	Analog Input	Analog Value	Multi- State Input	Multi- State Value	Character String Value	Date- Time Value	Positive Integer Value
Object Name	(R)/W									
Description	R/W					R*		R*		
APDU Segment Timeout	R/W									
Max Segments Accepted	R									
Serial Number	R									
Structured Object List	R									
Device UUID	R									
Reliability		R	R	R	R	R	R	R	R	R
Active Text		R	R							
Inactive Text		R	R							
Update Interval				R*						
State Text						R	R			

R – Optional property implemented as readable

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.

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 optional properties are implemented for object types not shown in the table below.

			Object Type						
Proprietary Properties	Property ID	BACnet Encoding	Binary Value	Analog Input	Analog Value	Multi- State Input	Multi- State Value	Character String Value	Positive Integer
Modbus Register	8000	Unsigend Integer	R*	R*	R*		R*		R
Modbus Field Length	8001	Unsigend Integer	R*	R*	R*		R*	R*	R
Modbus Field Type	8002	Character String	R*	R*	R*		R*		R
Modbus Decimal Places	8003	UInsigned Integer		R*					
Default Value	8004	Character String						R*	
Networking Mode	8005	Character String				R*			

R – Proprietary property implemented as readable

R/W – Optional property implemented as readable and writable

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

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

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

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 othe devices.) ☐ Yes ☑ No
Networking Options:
<ul> <li>□ Router, Clause 6 - List all routing configurations</li> <li>□ Annex H, BACnet Tunneling Router over IP</li> <li>□ BACnet/IP Broadcast Management Device (BBMD)</li> <li>□ Does the BBMD support registrations by Foreign Devices?</li> <li>□ Yes</li> <li>□ No</li> </ul>
Character Sets Supported:
Indicating support for multiple character sets does not imply that they can all be supported simultaneously.
<ul> <li>☑ ANSI X3.4</li> <li>☐ IBM™/Microsoft™ DBCS</li> <li>☐ ISO 10646 (UCS-2)</li> <li>☐ ISO 10646 (UCS-4)</li> <li>☐ JIS C 6226</li> </ul>
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>