BACnet Protocol Implementation Conformance Statement

Date: March 29, 2019

Vendor Name: IDEC Corporation
Product Name: MICRO/I HG5G/4G/3G/2G-V
Product Model Number: HG5G-VFXT22MF-*, HG4G-VCXT22MF-*, HG3G-VAXT22MF-*,
HG3G-V8XT22MF-*, HG2G-V5FT22TF-*

Application Software Version: v4.65 (HG5G/4G/3G/2G-V system software)
Firmware Revision: v4.65 (HG5G/4G/3G/2G-V system software)

BACnet Protocol Revision: 14

Product Description:
The MICRO/I is equipped with a high-brightness, color LCD with fast screen drawing speed, quick-response touch switches, and high-speed communications to provide a comfortable man-machine interface. It is designed to allow easy data read/write from/to external device's, and does not burden the operator with issues relating to communications software.
In creating projects, use the WindO/I-NV4, the dedicated configuration software application for the MICRO/I.

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):

Data Sharing	DS-RP-B	Data Sharing Read Property-B
	DS-RPM-B	Data Sharing Read Property Multiple-B
	DS-WP-B	Data Sharing Write Property-B
	DS-WPM-B	Data Sharing Write Property Multiple-B
	DS-COV-B	Data Sharing COV-B
	DS-COVU-B	Data Sharing COV Unsubscribed-B
Device & Network Management	DM-DDB-B	Device Management Dynamic Device Binding-B
	DM-DOB-B	Device Management Dynamic Object Binding-B
	DM-DCC-B	Device Management Device Communication Control-B

Segmentation Capability:

☒ Able to transmit segmented messages   Window Size ___1___

☒ Able to receive segmented messages   Window Size ___1___

Standard Object Types Supported:

Supported Object Type

Device Object
Analog Input Object
Analog Output Object
Analog Value Object
Binary Input Object
Binary Output Object
Binary Value Object

* All objects cannot be created or deleted dynamically.

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BACnet Protocol Implementation Conformance Statement
22-R&D-0384

Device Object

Object_Identifier	R
Object_Name	R
Object_Type	R
System_Status	R
Vendor_Name	R
Vendor_Identifier	R
Model_Name	R
Firmware_Revision	R
Application_Software_Version	R
Location	R/W
Description	R/W
Protocol_Version	R
Protocol_Revision	R
Protocol_Services_Supported	R
Protocol_Object_Types_Supported	R
Object_List	R
Max_APDU_Length_Accepted	R
Segmentation_Supported	R
Local_Time	R
Local_Date	R
APDU_Timeout	R
Number_of_APDU_Retries	R
Device_Address_Binding	R
Database_Revision	R
Profile_Name	R

* R-Readable, R/W-Readable/Writable

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BACnet Protocol Implementation Conformance Statement
22-R&D-0384

Analog Input Object:

Object_Identifier	R
Object_Name	R
Object_Type	R
Present_Value	R *2
Description	R
Device_Type	R
Status_Flags	R
Event_State	R
Reliability	R
Out_Of_Service	R/W
Units	R/W
Resolution	R
COV_Increment	R/W

*1 R-Readable, R/W-Readable/Writable
*2 Present_Value will become R/W if Out_Of_Service is set to TRUE

Analog Output Object

Object_Identifier	R
Object_Name	R
Object_Type	R
Present_Value	R/W
Description	R
Device_Type	R
Status_Flags	R
Event_State	R
Reliability	R
Out_Of_Service	R/W
Units	R/W
Resolution	R
Priority_Array	R
Relinquish_Default	R/W
COV_Increment	R/W

* R-Readable, R/W-Readable/Writable

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BACnet Protocol Implementation Conformance Statement
22-R&D-0384

Analog Value Object

Object_Identifier	R
Object_Name	R
Object_Type	R
Present_Value	R *2
Description	R
Status_Flags	R
Event_State	R
Out_Of_Service	R/W
Units	R/W
Priority_Array	R
Relinquish_Default	R/W
COV_Increment	R/W
Resolution	R

*1 R-Readable, R/W-Readable/Writable
*2 Present_Value will become R/W if Out_Of_Service is set to TRUE

Binary Input Object

Object_Identifier	R
Object_Name	R
Object_Type	R
Present_Value	R *2
Description	R
Device_Type	R
Status_Flags	R
Event_State	R
Reliability	R
Out_Of_Service	R/W
Polarity	R/W

*1 R-Readable, R/W-Readable/Writable
*2 Present_Value will become R/W if Out_Of_Service is set to TRUE

Binary Output Object

Object_Identifier	R
Object_Name	R
Object_Type	R
Present_Value	R/W
Description	R
Device_Type	R
Status_Flags	R
Event_State	R
Reliability	R
Out_Of_Service	R/W
Polarity	R/W
Priority_Array	R
Relinquish_Default	R/W

* R-Readable, R/W-Readable/Writable

Binary Value Object

Object_Identifier	R
Object_Name	R
Object_Type	R
Present_Value	R *2
Description	R
Status_Flags	R
Event_State	R
Reliability	R
Out_Of_Service	R/W
Priority_Array	R
Relinquish_Default	R/W

*1 R-Readable, R/W-Readable/Writable
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22-R&D-0384

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
☐ 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

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:

Modbus TCP, Modbus RTU over RS232C or RS485, User Communication (ASCII communication protocol) over TCP, UDP, RS232C, or RS485, Communication with supporting PLCs