

BACnet Protocol Implementation Conformance Statement

Date: 14.12.2014

Vendor Name: Ingenieurgesellschaft N.Hartleb mbH

Product:

Name	Model Number	Application Software Version	Firmware Version	BACnet Protocol Revision
BACnet-Gateway PICO	BACnGTW-PICO	1.29	1.29bxxx	1.4
BACnet-Gateway PICO KNX/EIB	BACnGTW-PICO-KNX	1.29	1.29bxxx	1.4

Product Description:

The BACnet Gateway is a communication gateway; it integrates standard and proprietary protocols and provides access to BACnet as a server.

BACnet Standardized Device Profile:

BACnet Application Specific Controller (B-ASC)

BACnet Interoperability Building Blocks Supported:

(grey marked BIBBs are generally supported in firmware; at Application Software on request)

Data Sharing BIBBs

Data Sharing ReadProperty-BDS-RP-B
Data Sharing ReadPropertyMultiple-BDS-RPM-B
Data Sharing WriteProperty-BDS-WP-B
Data Sharing COV-Unsolicited-BDS-COVU-B

Device Management BIBBs

Device Management Dynamic Device Binding-BDM-DDB-B
Device Management Dynamic Object Binding-BDM-DOB-B
Device Management DeviceCommunicationControl-BDM-DCC-B
Device Management TimeSynchronization-BDM-TS-B
Device Management ReinitializeDevice-B.....DM-RD-B
Device Management Backup and Restore-BDM-BR-B

Segmentation Capability:

Segmentation requests supported N/A
Segmentation responses supported N/A

Standard Object Types Supported:

Object Type	Dynamically Createable	Dynamically Deleteable
Analog Input	No	No
Analog Output	No	No
Analog Value	No	No
Binary Input	No	No
Binary Output	No	No
Binary Value	No	No
Device	No	No
File	No	No
Multistate Input	No	No
Multistate Output	No	No
Multistate Value	No	No
Program	No	No

Analog Input	
Optional Properties Supported	Writeable Properties
Description Reliability COV_Increment Profile_Name Notification_Class (used as COV switch)	Object_Name (max. 64 Character) Present_Value Description (max. 64 Character) Out_Of_Service Units COV_Increment Notification_Class (0:COV disable, 1:COV enable)

Analog Output	
Optional Properties Supported	Writeable Properties
Description Reliability COV_Increment Profile_Name Notification_Class (used as COV switch)	Object_Name (max. 64 Character) Present_Value Description (max. 64 Character) Out_Of_Service Units COV_Increment Notification_Class (0:COV disable, 1:COV enable)

Analog Value	
Optional Properties Supported	Writeable Properties
Description Reliability COV_Increment Profile_Name Priority_Array	Object_Name (max. 64 Character) Present_Value Description (max. 64 Character) Out_Of_Service Units

Relinquish_Default Notification_Class (used as COV switch)	COV_Increment Notification_Class (0:COV disable, 1:COV enable)
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Binary Input	
Optional Properties Supported	Writeable Properties
Description Reliability Profile_Name Active_Text Inactive_Text Elapsed_Active_Time Time_Of_Active_Time_Reset Change_of_State_Time Change_of_State_Count Time_Of_State_Count_Reset Notification_Class (used as COV switch)	Object_Name (max. 64 Character) Present_Value Description (max. 64 Character) Out_Of_Service Polarity Active_Text (max. 8 Character) Inactive_Text (max. 8 Character) Elapsed_Active_Time Change_of_State_Count Notification_Class (0:COV disable, 1:COV enable)

Binary Output	
Optional Properties Supported	Writeable Properties
Description Reliability Profile_Name Active_Text Inactive_Text Elapsed_Active_Time Time_Of_Active_Time_Reset Change_of_State_Time Change_of_State_Count Time_Of_State_Count_Reset Notification_Class (used as COV switch)	Object_Name (max. 64 Character) Present_Value Description (max. 64 Character) Out_Of_Service Polarity Active_Text (max. 8 Character) Inactive_Text (max. 8 Character) Elapsed_Active_Time Change_of_State_Count Notification_Class (0:COV disable, 1:COV enable)

Binary Value	
Optional Properties Supported	Writeable Properties
Description Reliability Profile_Name Active_Text Inactive_Text Elapsed_Active_Time Time_Of_Active_Time_Reset Priority_Array Relinquish_Default Change_of_State_Time Change_of_State_Count Time_Of_State_Count_Reset Notification_Class (used as COV switch)	Object_Name (max. 64 Character) Present_Value Description (max. 64 Character) Out_Of_Service Active_Text (max. 8 Character) Inactive_Text (max. 8 Character) Elapsed_Active_Time Change_of_State_Count Notification_Class (0:COV disable, 1:COV enable)

Device	
Optional Properties Supported	Writeable Properties
Location (max. 64 Character) Description Local_Time Local_Date UTC_Offset (used as global COV mode) Configuration_Files Backup_Failure_Timeout Last_Restore_Time Max_Master Max_Info_Frames	* Object_Name (max. 64 Character) * Object_Identifier Instance: (default 247000 + MacAddr DIPSwitch) Description (max. 64 Character) UTC_Offset (COV 0:Off, 1:LocalNet, 2:GlobalNet) Max_Master (1..127) Max_Info_Frames (1..255)

** writing these properties will additionally save RAM config to EEPROM
 (like DM-BR-B, StartBackup procedure)*

File	
Optional Properties Supported	Writeable Properties
Description Profile_Name	

Multistate Input	
Optional Properties Supported	Writeable Properties
Description Reliability Profile_Name State_Text (only States 1..8, max. 8 Chars each) Notification_Class (used as COV switch)	Object_Name (max. 64 Character) Present_Value Description (max. 64 Character) Out_Of_Service Notification_Class (0:COV disable, 1:COV enable)

Multistate Output	
Optional Properties Supported	Writeable Properties
Description Reliability Profile_Name State_Text (only States 1..8, max. 8 Chars each) Notification_Class (used as COV switch)	Object_Name (max. 64 Character) Present_Value Description (max. 64 Character) Out_Of_Service Notification_Class (0:COV disable, 1:COV enable)

Multistate Value	
Optional Properties Supported	Writeable Properties
Description Reliability Profile_Name State_Text (only States 1..8, max. 8 Chars each) Priority_Array Relinquish_Default Notification_Class (used as COV switch)	Object_Name (max. 64 Character) Present_Value Description (max. 64 Character) Out_Of_Service Notification_Class (0:COV disable, 1:COV enable)

Program	
Optional Properties Supported	Writeable Properties
Description (pBasic REM statement @ 1.Row, max. 64 Character) Reliability Profile_Name Reason_For_Halt Description_Of_Halt Program_Location (pBasic Call, max. 64 Character)	Program_Change

Data Link Layer Options:

MS/TP Master: 4800, 9600, 19200, 38400, 57600, 76800, 115200, 230400

Device Address Binding:

Static device address binding is not supported

Networking Options:

N/A

Character Sets Supported:

ANSI X3.4

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

- Modbus Master RTU RS232/RS485
- KNX/EIB TP

- other RS232/RS485 Protocols OEM
- CAN Bus Interface OEM
- SPI Interface OEM
- onchip integrated DIOs, AIOs OEM