

**DDC4000e (Software 1.16.1)****BACnet™ Protocol Implementation Conformance Statement (PICS)**

Date:	2017-08-01
Vendor Name:	Kieback&Peter GmbH & Co. KG
Product Name:	DDC4000e
Product Model Number:	DDC4020e, DDC4040e
Application Software Version:	1.16.1
Firmware Revision:	B1.15#0
BACnet Protocol Revision:	1.12 (BACnet ANSI/ASHRAE 135-2010 Rev. 12)

**Product Description:**

The Kieback&Peter DDC4000e is a BACnet Building Controller.

**BACnet Standardized Device Profile (Annex L):**

- BACnet Advanced Operator Workstation (B-AWS)
- BACnet Operator Workstation (B-OWS)
- 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)

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Änderungen vorbehalten - Contents subject to change - Sous réserve de modifications - Reservado el derecho a modificación - Wijzigingen voorbehouden - Con riserva di modifiche - Innehåll som skall ändras - Změny vyhrazeny - Zmiany zastrzeżone - Возможны изменения - A változtatások jogát fenntartjuk - 保留未经通知而改动的权力

**Standard Object Types Supported**

Object Type	DDC4000e		
	supported	creatable	deletable
Accumulator Object			
Analog Input Object	x	x	x
Analog Output Object	x	x	x
Analog Value Object	x	x	x
Averaging Object			
Binary Input Object	x	x	x
Binary Output Object	x	x	x
Binary Value Object	x	x	x
Calendar Object	x	x	x
Command Object	x	x	x
Device Object	x		
Event Enrollment Object	x	x	x
Event Log Object	x	x	x
File Object	x		
Global Group Object			
Group Object			
Life Safety Point Object			
Life Safety Zone Object			
Loop Object	x		
Multi-state Input Object	x	x	x
Multi-state Output Object	x	x	x
Multi-state Value Object	x	x	x
Notification Class Object	x	x	x
Program Object			
Pulse Converter Object	x	x	x
Schedule Object	x	x	x
Trend Log Object	x	x	x
Trend Log Multiple Object	x	x	x
Load Control Object	x		
Structured View Object			
Network Security Object			
BitString Value Object			
CharacterString Value Object	x		
Date Pattern Value Object			
Date Value Object			
DateTime Pattern Value Object			
DateTime Value Object			
Integer Value Object			
Large Analog Value Object			
OctetString Value Object			
Positive Integer Value Object			
Time Pattern Value Object			
Time Value Object			

**BACnet Interoperability Building Blocks (BIBBs)****Data Sharing BIBBs**

DS-RP-A	Data Sharing-ReadProperty-A
DS-RP-B	Data Sharing-ReadProperty-B
DS-RPM-A	Data Sharing-ReadPropertyMultiple-A
DS-RPM-B	Data Sharing-ReadPropertyMultiple-B
DS-WP-A	Data Sharing-WriteProperty-A
DS-WP-B	Data Sharing-WriteProperty-B
DS-WPM-B	Data Sharing-WritePropertyMultiple-B
DS-COV-A	Data Sharing-COV-A
DS-COV-B	Data Sharing-COV-B
DS-COVP-B	Data Sharing-COVP-B
DS-COVU-A	Data Sharing-COV-Unsolicited-A
DS-COVU-B	Data Sharing-COV-Unsolicited-B

**Alarm and Event Management BIBBs**

AE-N-A	Alarm and Event-Notification-A
AE-N-I-B	Alarm and Event-Notification Internal-B
AE-N-E-B	Alarm and Event-Notification External-B
AE-ACK-B	Alarm and Event-ACK-B
AE-ASUM-B	Alarm and Event-Alarm Summary-B
AE-ESUM-B	Alarm and Event-Enrollment Summary-B
AE-INFO-B	Alarm and Event-Information-B
AE-EL-I-B	Alarm and Event-Event Log-Internal-B
AE-EL-E-B	Alarm and Event-Event Log-External-B

**Scheduling BIBBs**

SCHEM-I-B	Scheduling-Internal-B
SCHEM-E-B	Scheduling-External-B

**Trending BIBBs**

T-VMT-I-B	Trending-Viewing and Modifying Trends Internal-B
T-VMT-E-B	Trending-Viewing and Modifying Trends External-B
T-VMMV-I-B	Trending-Viewing and Modifying Multiple Values-Internal-B
T-VMMV-E-B	Trending-Viewing and Modifying Multiple Values-External-B
T-AMVR-B	Trending-Automated Multiple Value Retrieval-B
T-ATR-B	Trending-Automated Trend Retrieval-B

**Device and Network Management BIBBs**

DM-DDB-A	Device Management-Dynamic Device Binding-A
DM-DDB-B	Device Management-Dynamic Device Binding-B
DM-DOB-B	Device Management-Dynamic Object Binding-B
DM-DCC-B	Device Management-DeviceCommunicationControl-B
DM-TS-A	Device Management-TimeSynchronization-A
DM-TS-B	Device Management-TimeSynchronization-B
DM-UTC-A	Device Management-UTCTimeSynchronization-A
DM-UTC-B	Device Management-UTCTimeSynchronization-B
DM-RD-B	Device Management-ReinitializeDevice-B

DM-BR-B	Device Management-Backup and Restore-B
DM-R-A	Device Management-Restart-A
DM-R-B	Device Management-Restart-B
DM-LM-A	Device Management-List Manipulation-A
DM-LM-B	Device Management-List Manipulation-B
DM-OCD-B	Device Management-Object Creation and Deletion-B
DM-ATS-A	Device Management-Automatic Time Synchronization-A
NM-CE-A	Network Management-Connection Establishment-A
NM-CE-B	Network Management-Connection Establishment-B
NM-RC-A	Network Management-Router Configuration-A
NM-RC-B	Network Management-Router Configuration-B

### Segmentation Capability

- Segmented requests supported; Window Size: **32**
- Segmented responses supported; Window Size: **32**

## Analog Input Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Present_Value	x			x		
Description		x		x	x	184 characters
Device_Type		x		x		
Status_Flags	x			x		
Event_State	x			x		
Reliability		x		x		
Out_Of_Service	x			x	x	
Update_Interval		x		x		
Units	x			x		
Min_Pres_Value		x		x		
Max_Pres_Value		x		x		
Resolution		x		x		
COV_Increment		x		x	x	
Time_Delay		x		x	x	[0..3600]
Notification_Class		x		x	x	
High_Limit		x		x	x	
Low_Limit		x		x	x	
Deadband		x		x	x	
Limit_Enable		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				

Analog Output Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Present_Value	x		x	x	x	
Description		x		x	x	184 characters
Device_Type		x		x		
Status_Flags	x			x		
Event_State	x			x		
Reliability		x		x		
Out_Of_Service	x			x	x	
Units	x			x		
Min_Pres_Value		x		x		
Max_Pres_Value		x		x		
Resolution		x		x		
Priority_Array	x			x		
Relinquish_Default	x			x	x	
COV_Increment		x		x	x	
Time_Delay		x		x	x	[0..3600]
Notification_Class		x		x	x	
High_Limit		x		x	x	
Low_Limit		x		x	x	
Deadband		x		x	x	
Limit_Enable		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				

**Analog Value Object**

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Present_Value	x			x	x	
Description		x		x	x	184 characters
Status_Flags	x			x		
Event_State	x			x		
Reliability		x		x		
Out_Of_Service	x			x	x	
Units	x			x		
Priority_Array		x		x		
Relinquish_Default		x		x	x	
COV_Increment		x		x	x	
Time_Delay		x		x	x	[0..3600]
Notification_Class		x		x	x	
High_Limit		x		x	x	
Low_Limit		x		x	x	
Deadband		x		x	x	
Limit_Enable		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				

Binary Input Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Present_Value	x			x		
Description		x		x	x	184 characters
Device_Type		x		x		
Status_Flags	x			x		
Event_State	x			x		
Reliability		x		x		
Out_Of_Service	x			x	x	
Polarity	x			x	x	
Inactive_Text		x		x	x	[1;64] characters
Active_Text		x		x	x	[1;64] characters
Change_Of_State_Time		x		x		
Change_Of_State_Count		x		x	x	
Time_Of_State_Count_Reset		x		x		
Elapsed_Active_Time		x		x	x	
Time_Of_Active_Time_Reset		x		x		
Time_Delay		x		x	x	[0..3600]
Notification_Class		x		x	x	
Alarm_Value		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				



Binary Output Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Present_Value	x		x	x	x	
Description		x		x	x	184 characters
Device_Type		x		x		
Status_Flags	x			x		
Event_State	x			x		
Reliability		x		x		
Out_Of_Service	x			x	x	
Polarity	x			x		
Inactive_Text		x		x	x	[1;64] characters
Active_Text		x		x	x	[1;64] characters
Change_Of_State_Time		x		x		
Change_Of_State_Count		x		x	x	
Time_Of_State_Count_Reset		x		x		
Elapsed_Active_Time		x		x	x	
Time_Of_Active_Time_Reset		x		x		
Minimum_Off_Time		x		x	x	
Minimum_On_Time		x		x	x	
Priority_Array	x			x		
Relinquish_Default	x			x	x	
Time_Delay		x		x	x	[0..3600]
Notification_Class		x		x	x	
Feedback_Value		x		x		
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				

Binary Value Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Present_Value	x			x	x	
Description		x		x	x	184 characters
Status_Flags	x			x		
Event_State	x			x		
Reliability		x		x		
Out_Of_Service	x			x	x	
Inactive_Text		x		x	x	[1;64] characters
Active_Text		x		x	x	[1;64] characters
Change_Of_State_Time		x		x		
Change_Of_State_Count		x		x	x	
Time_Of_State_Count_Reset		x		x		
Elapsed_Active_Time		x		x	x	
Time_Of_Active_Time_Reset		x		x		
Minimum_Off_Time		x		x	x	
Minimum_On_Time		x		x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Time_Delay		x		x	x	[0..3600]
Notification_Class		x		x	x	
Alarm_Value		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				

## Calendar Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Description		x		x	x	184 characters
Present_Value	x			x		
Date_List	x			x	x	
Profile_Name		x		x		

**Command Object**

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Description		x		x	x	184 characters
Present_Value	x		x	x	x	
In_Process	x			x		
All_Writes_Successful	x			x		
Action		x		x	x	[0..37]
Action_Text		x		x	x	[0..37]
Profile_Name		x		x		

Device Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
System_Status	x			x		
Vendor_Name	x			x		
Vendor_Identifier	x			x		
Model_Name	x			x		
Firmware_Revision	x			x		
Application_Software_Version	x			x		
Location		x		x	x	
Description		x		x	x	184 characters
Protocol_Version	x			x		
Protocol_Revision	x			x		
Protocol_Services_Supported	x			x		
Protocol_Object_Types_Supported	x			x		
Object_List	x			x		
Structured_Object_List		x				
Max_APDU_Length_Accepted	x			x		
Segmentation_Supported	x			x		
Max_Segments_Accepted		x		x		
VT_Classes_Supported		x				
Active_VT_Sessions		x				
Local_Time		x		x		
Local_Date		x		x		
UTC_Offset		x		x		
Daylight_Savings_Status		x		x		
APDU_Segment_Timeout		x		x		
APDU_Timeout	x			x		
Number_Of_APDU_Retries	x			x		
List_Of_Session_Keys		x				
Time_Synchronization_Recipients		x		x	x	
Max_Master		x		x	x	
Max_Info_Frames		x		x	x	
Device_Address_Binding	x			x		
Database_Revision	x			x		
Configuration_Files		x		x		
Last_Restore_Time		x		x		
Backup_Failure_Timeout		x		x	x	
Backup_Preparation_Time		x		x		
Restore_Preparation_Time		x		x		
Restore_Completion_Time		x		x		

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Backup_And_Restore_State		X		X		
Active_COV_Subscriptions		X		X		
Slave_Proxy_Enable		X		X	X	
Manual_Slave_Address_Binding		X		X	X	
Auto_Slave_Discovery		X		X	X	
Slave_Address_Binding		X		X	X	
Last_Restart_Reason		X		X		
Time_Of_Device_Restart		X		X		
Restart_Notification_Recipients		X		X	X	
UTC_Time_Synchronization_Recipients		X		X	X	
Time_Synchronization_Interval		X		X	X	
Align_Intervals		X		X	X	
Interval_Offset		X		X	X	
Profile_Name		X		X		

Event Enrollment Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Description		x		x	x	184 characters
Event_Type	x			x		
Notify_Type	x			x	x	
Event_Parameters	x			x	x	
Object_Property_Reference	x			x	x	only writable for dynamically created objects
Event_State	x			x		
Event_Enable	x			x	x	
Acked_Transitions	x			x		
Notification_Class	x			x	x	
Event_Time_Stamps	x			x		
Profile_Name		x		x		
Event_Message_Texts		x				

Event Log Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Description		x		x	x	184 characters
Status_Flags	x			x		
Event_State	x			x		
Enable	x		x	x	x	
Start_Time		x		x	x	
Stop_Time		x		x	x	
Stop_When_Full	x			x	x	
Buffer_Size	x			x	x	
Log_Buffer	x			x		
Record_Count	x		x	x	x	
Total_Record_Count	x			x		
Notification_Threshold		x		x	x	
Records_Since_Notification		x		x		
Last_Notify_Record		x		x		
Notification_Class		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				



## File Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Description		x		x	x	184 characters
File_Type	x			x		
File_Size	x			x	x	
Modification_Date	x			x		
Archive	x		x	x	x	
Read_Only	x			x		
File_Access_Method	x			x		
Record_Count		x				
Profile_Name		x		x		

Loop Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Present_Value	x			x		
Description		x		x	x	184 characters
Status_Flags	x			x		
Event_State	x			x		
Reliability		x		x		
Out_Of_Service	x			x	x	
Update_Interval		x		x		
Output_Units	x			x		
Manipulated_Variable_Reference	x			x		
Controlled_Variable_Reference	x			x		
Controlled_Variable_Value	x			x		
Controlled_Variable_Units	x			x		
Setpoint_Reference	x			x		
Setpoint	x			x		
Action	x			x		
Proportional_Constant		x		x	x	
Proportional_Constant_Units		x		x		
Integral_Constant		x		x	x	
Integral_Constant_Units		x		x		
Derivative_Constant		x		x	x	
Derivative_Constant_Units		x		x		
Bias		x		x	x	
Maximum_Output		x		x	x	
Minimum_Output		x		x	x	
Priority_For_Writing	x			x		
COV_Increment		x		x	x	
Time_Delay		x		x	x	[0..3600]
Notification_Class		x		x	x	
Error_Limit		x		x	x	
Deadband		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				

## Multi-state Input Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Present_Value	x			x		
Description		x		x	x	184 characters
Device_Type		x		x		
Status_Flags	x			x		
Event_State	x			x		
Reliability		x		x		
Out_Of_Service	x			x	x	
Number_Of_States	x			x		
State_Text		x		x		64 characters
Time_Delay		x		x	x	[0..3600]
Notification_Class		x		x	x	
Alarm_Values		x		x	x	
Fault_Values		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				

**Multi-state Output Object**

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Present_Value	x		x	x	x	
Description		x		x	x	184 characters
Device_Type		x		x		
Status_Flags	x			x		
Event_State	x			x		
Reliability		x		x		
Out_Of_Service	x			x	x	
Number_Of_States	x			x		
State_Text		x		x		64 characters
Priority_Array	x			x		
Relinquish_Default	x			x	x	
Time_Delay		x		x	x	[0..3600]
Notification_Class		x		x	x	
Feedback_Value		x		x		
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				

Multi-state Value Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Present_Value	x			x	x	
Description		x		x	x	184 characters
Status_Flags	x			x		
Event_State	x			x		
Reliability		x		x		
Out_Of_Service	x			x	x	
Number_Of_States	x			x		
State_Text		x		x		64 characters
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Time_Delay		x		x	x	[0..3600]
Notification_Class		x		x	x	
Alarm_Values		x		x	x	
Fault_Values		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				

**Notification Class Object**

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Description		x		x	x	184 characters
Notification_Class	x			x		
Priority	x			x	x	
Ack_Required	x			x	x	
Recipient_List	x			x	x	
Profile_Name		x		x		

Pulse Converter Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Description		x		x	x	184 characters
Present_Value	x			x		
Input_Reference		x		x	x	
Status_Flags	x			x		
Event_State	x			x		
Reliability	x			x		
Out_Of_Service	x			x	x	
Units	x			x		
Scale_Factor	x		x	x	x	
Adjust_Value	x			x	x	
Count	x			x		
Update_Time	x			x		
Count_Change_Time	x			x		
Count_Before_Change		x		x		
COV_Increment		x		x	x	[0.1..3.40282347E38]
COV_Period		x		x	x	[0..2147483647]
Notification_Class		x		x	x	
Time_Delay		x		x	x	[0..3600]
High_Limit		x		x	x	
Low_Limit		x		x	x	
Deadband		x		x	x	
Limit_Enable		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				

Schedule Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Present_Value	x			x		Unsigned, BinaryPV, Boolean, Real, NULL
Description		x		x	x	184 characters
Effective_Period	x			x	x	
Weekly_Schedule		x		x	x	
Exception_Schedule		x		x	x	
Schedule_Default	x			x	x	Unsigned, BinaryPV, Boolean, Real, NULL
List_Of_Object_Property_References	x			x	x	
Priority_For_Writing	x			x	x	
Status_Flags	x			x		
Reliability	x			x		
Out_Of_Service	x			x	x	
Profile_Name		x		x		



**Trend Log Object**

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Description		x		x	x	184 characters
Enable	x		x	x	x	
Start_Time		x		x	x	
Stop_Time		x		x	x	
Log_DeviceObjectProperty		x		x		
Log_Interval		x		x	x	
COV_Resubscription_Interval		x		x	x	[10..86400]
Client_COV_Increment		x		x	x	
Stop_When_Full	x			x	x	
Buffer_Size	x			x	x	
Log_Buffer	x			x		
Record_Count	x		x	x	x	
Total_Record_Count	x			x		
Notification_Threshold		x		x	x	
Records_Since_Notification		x		x		
Last_Notify_Record		x		x		
Event_State	x			x		
Notification_Class		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Logging_Type		x		x	x	
Align_Intervals		x		x	x	
Interval_Offset		x		x	x	
Trigger		x		x	x	
Status_Flags		x		x		
Reliability		x		x		
Event_Message_Texts		x				

Trend Log Multiple Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Description		x		x	x	184 characters
Status_Flags	x			x		
Event_State	x			x		
Reliability	x			x		
Enable	x		x	x	x	
Log_DeviceObjectProperty	x			x	x	[0..16]
Logging_Type	x			x	x	
Log_Interval	x		x	x	x	
Align_Intervals		x		x	x	
Interval_Offset		x		x	x	
Stop_When_Full	x			x	x	
Buffer_Size	x			x	x	[10..5000]
Log_Buffer	x			x		
Record_Count	x		x	x	x	
Total_Record_Count	x			x		
Notification_Threshold		x		x	x	[10..5000]
Records_Since_Notification		x		x		
Last_Notify_Record		x		x		
Notification_Class		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Start_Time		x	x	x	x	
Stop_Time		x	x	x	x	
Trigger		x		x	x	
Event_Message_Texts		x				

Load Control Object

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Description		x		x	x	184 characters
Present_Value	x			x		
State_Description		x		x		
Status_Flags	x			x		
Event_State	x			x		
Reliability		x		x		
Requested_Shed_Level			x	x	x	
Start_Time			x	x	x	
Shed_Duration			x	x	x	[0..2147483647]
Duty_Window			x	x	x	[0..2147483647]
Enable			x	x	x	
Full_Duty_Baseline		x		x		
Expected_Shed_Level	x			x		
Actual_Shed_Level	x			x		
Shed_Levels			x	x	x	not resizable
Shed_Levels_Descriptions	x			x	x	not resizable
Notification_Class		x		x	x	
Time_Delay		x		x	x	[0..3600]
Event_Enable		x		x	x	
Acked_Transitions		x		x		
Notify_Type		x		x	x	
Event_Time_Stamps		x		x		
Profile_Name		x		x		
Event_Message_Texts		x				

**CharacterString Value Object**

Property Identifier	BACnet Standard			DDC4000e		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	184 characters
Object_Type	x			x		
Description		x		x	x	184 characters
Present_Value	x			x		
Status_Flags	x			x		
Event_State		x				
Reliability		x				
Out_Of_Service		x				
Priority_Array		x				
Relinquish_Default		x				
Time_Delay		x				
Notification_Class		x				
Alarm_Values		x				
Fault_Values		x				
Event_Enable		x				
Acked_Transitions		x				
Notify_Type		x				
Event_Time_Stamps		x				
Event_Message_Texts		x				
Profile_Name		x		x		

**Data Link Layer Options**

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ASTM 878.1, 2.5 Mb. ARCNET (Clause 8)
- ASTM 878.1, RS-485 ARCNET (Clause 8) baud rate(s) \_\_\_\_\_
- MS/TP master (Clause 9), baud rate(s): **9600, 19200, 38400, 57600, 76800, 115200**
- MS/TP slave (Clause 9), baud rate(s): \_\_\_\_\_
- Point-To-Point, EIA 232 (Clause 10), baud rate(s): **115200**
- Point-To-Point, modem, (Clause 10), baud rate(s): **115200**
- 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**

**Networking Options**

- Router, Clause 6 - List all routing configurations: **BACnet/IP to Point-To-Point, BACnet/IP to MS/TP**
- Annex H, BACnet Tunneling Router over IP
- BACnet Broadcast Management Device (BBMD)
- Does the BBMD support registrations by Foreign Devices? **Yes**
- Does the BBMD support network address translation? **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 X 0208
- ISO 10646 (UTF-8)

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

**Network Security Options**

- Non-secure Device - is capable of operating without BACnet Network Security **Yes**
- Secure Device - is capable of using BACnet Network Security (NS-SD BIBB) **No**
- Multiple Application-Specific Keys **No**
- Supports encryption (NS-ED BIBB) **No**
- Key Server (NS-KS BIBB) **No**

