

# DDC4200

BACnet™  
Protocol  
Implementation  
Conformance  
Statement  
(PICS)  
Version 1

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



## BACnet Protocol Implementation Conformance Statement

**Date:** 4/17/2008

**Vendor Name:** Kieback&Peter GmbH & Co KG

**Product Name:** DDC4200

**Product Model Number:** DDC4200

**Applications Software Version:** 1.5

**Firmware Revision:** 1.0.11

**BACnet Protocol Revision:** 4

### Product Description:

The Kieback&Peter DDC4200 is a BACnet-Building-Controller.

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

- BACnet Operator Workstation (B-OWS)
- 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):

#### 1. Data Sharing BIBBs

Data Sharing Read-Property-A	DS-RP-A
Data Sharing Read-Property-B	DS-RP-B
Data Sharing Read-Property-Multiple-A	DS-RPM-A
Data Sharing Read-Property-Multiple-B	DS-RPM-B
Data Sharing Write-Property-A	DS-WP-A
Data Sharing Write-Property-B	DS-WP-B
Data Sharing Write-Property-Multiple-B	DS-WPM-B
Data Sharing Change-Of-Value-A	DS-COV-A
Data Sharing Change-Of-Value-B	DS-COV-B
Data Sharing Change-Of-Value-Unsolicited-A	DS-COVU-A
Data Sharing Change-Of-Value-Unsolicited-B	DS-COVU-B

#### 2. Alarm / Event BIBBs

Alarm and Event-Notification-Internal-B	AE-N-I-B
Alarm and Event-Acknowledge-B	AE-ACK-B
Alarm and Event Alarm-Summary-B	AE-ASUM-B
Alarm and Event Event-Summary-B	AE-ESUM-B
Alarm and Event-Info-B	AE-INFO-B

#### 3. Scheduling BIBBs

Schedule-Internal-B	SCHED-I-B
Schedule-External-B	SCHED-E-B

#### 4. Trending BIBBs

Trending Viewing-And-Modifying-Internal-B	T-VMT-I-B
Trending Automated-Trend-Retrieval-B	T-ATR-B

## 5. Device Management BIBBs

Device Management Dynamic-Device-Binding-A	DM-DDB-A
Device Management Dynamic-Device-Binding-B	DM-DDB-B
Device Management Dynamic-Object-Binding-B	DM-DOB-B
Device Management Device-Communication-Control-B	DM-DCC-B
Device Management Time-Synchronisation-B	DM-TS-B
Device Management UTC-Time-Synchronisation-B	DM-UTC-B
Device Management Reinitialize-Device-B	DM-RD-B
Device Management Backup-and-Restore-B	DM-BR-B
Device Management Restart-B	DM-R-B
Device Management List-Manipulation-B	DM-LM-B

## 6. Network Management BIBBs

Network Management Connection-Establishment-A	NM-CE-A
Network Management Connection-Establishment-B	NM-CE-B
Network Management Router-Configuration-A	NM-RC-A
Network Management Router-Configuration-B	NM-RC-B

**Segmentation Capability:**

- Able to transmit segmented messages      Window Size 4
- Able to receive segmented messages      Window Size 4

**Standard Object Types Supported:**

An object type is supported if it may be present in the device. For each standard Object Type supported provide the following data:

- 1) Whether objects of this type are dynamically creatable using the CreateObject service
- 2) Whether objects of this type are dynamically deletable using the DeleteObject service
- 3) List of the optional properties supported
- 4) List of all properties that are writable where not otherwise required by this standard
- 5) List of proprietary properties and for each its property identifier, datatype, and meaning
- 6) List of any property range restrictions

**1) 2) None of the Objects are dynamically creatable nor deletable.**

**5) There are no proprietary properties in the objects.**

**3) 4) 6) See the lists following on the next pages describing:**

- Analog Input
- Analog Output
- Analog Value
- Binary Input
- Binary Output
- Binary Value
- Calendar
- Device
- File
- Multistate Input
- Multistate Output
- Multistate Value
- Notification Class
- Schedule
- Trend Log

## Standard Object Types Supported:

Object-Type	Optional Properties Supported	Writeable Properties	Property Range Restrictions
Analog Input	Description Device_Type Reliability Update_Interval Min_Pres_Value Max_Pres_Value Resolution COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Profile_Name	Object_Name Out_Of_Service COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Notify_Type	100 Chars  3600 s
Analog Output	Description Device_Type Reliability Update_Interval Min_Pres_Value Max_Pres_Value Resolution COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Profile_Name	Object_Name Present_Value Out_Of_Service COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Notify_Type	100 Chars  3600 s
Analog Value	Description Reliability Priority_Array Relinquish_Default COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Profile_Name	Object_Name Present_Value Out_Of_Service COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Notify_Type	100 Chars  3600 s



## PICS

## DDC4200 controller with operating function

Object-Type	Optional Properties Supported	Writeable Properties	Property Range Restrictions
Calendar	Description Profile_Name	Object_Name Date_List	100 chars
Device	Description Max_Segments_accepted Local_Time Local_Date UTC_Offset Daylight_Savings_Status Configuration_Files Last_Restore_Time Backup_Failure_Timeout Active_COV_Subscriptions Profile_Name	Backup_Failure_Timeout	
File	Description Profile_Name	Object_Name Archive	100 chars

Object-Type	Optional Properties Supported	Writeable Properties	Property Range Restrictions
Multistate Input	Description Device_Type Reliability State_Text Time_Delay Notification_Class Alarm_Values Fault_Values Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Profile_Name	Object_Name Out_Of_Service Time_Delay Notification_Class Alarm_Values Fault_Values Event_Enable Notify_Type	100 chars  3600 s
Multistate Output	Description Device_Type Reliability State_Text Time_Delay Notification_Class Feedback_Value Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Profile_Name	Object_Name Present_Value Out_Of_Service Time_Delay Notification_Class Event_Enable Notify_Type	100 chars  3600 s
Multistate Value	Description Reliability State_Text Priority_Array Relinquish_Default Time_Delay Notification_Class Alarm_Values Fault_Values Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Profile_Name	Object_Name Present_Value Out_Of_Service Time_Delay Notification_Class Alarm_Values Fault_Values Event_Enable Notify_Type	100 chars  3600 s

Object-Type	Optional Properties Supported	Writeable Properties	Property Range Restrictions
Notification Class	Description Profile_Name	Object_Name Ack_Required Recipient_List	100 chars
Schedule	Description Weekly_Schedule Exception_Schedule Profile_Name	Object_Name Effective_Period Weekly_Schedule Exception_Schedule Schedule_Default List_Of_Object_Property_References Priority_For_Writing_Out_Of_Service	100 chars
Trend Log	Description Start_Time Stop_Time Log_DeviceObjectProperty Log_Interval COV_Resubscription_Interval Client_COV_Increment Notification_Threshold Records_Since_Notification Last_Notify_Record Notification_Class Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Profile_Name	Object_Name Start_Time Stop_Time Log_Interval Client_COV_Increment Stop_When_Full Buffer_Size Record_Count Notification_Threshold Notification_Class Event_Enable Notify_Type	100 chars

**Data Link Layer Options:**

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ANSI/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): 115200
- LonTalk, (Clause 11), medium:
- 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 – Halfrouter PTP
  - 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

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

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