

# SIEMENS



## **GxB181.1E/BA VAV Compact Controller BACnet MS/TP**

## **BACnet Protocol Implementation Conformance Statement (PICS)**

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# 1 VAV Compact Controller BACnet MS/TP

<b>Date</b>	: August 24, 2015
<b>Vendor name</b>	: Siemens Building Technologies (Vendor ID 7)
<b>Product name</b>	: VAV Compact Controller BACnet MS/TP
<b>Product model number</b>	: GxB181.1E/BA
<b>BACnet protocol version</b>	: 1.10 (2008)
<b>Application software version</b>	: FW=02.00.00.0;SBC=10.10;SVS-210
<b>Firmware revision</b>	: AAS-10:SU=SiUn;CPD=2015-01-01 00:00:00;CMT=V07.00/E VAV_BASE

## 1.1 Product description

OpenAir™ VAV Compact Controllers with BACnet MS/TP are designed for control of variable or constant air volume flows:

- Supply air control,
- Extract air control, or
- Supply / extract air cascades with ratio control (1:1, positive pressure or negative pressure)

## 1.2 BACnet standardized device profile (Annex L)

<input type="checkbox"/>	BACnet Advanced Workstation	(B-AWS)
<input type="checkbox"/>	BACnet Operator Workstation	(B-OWS)
<input type="checkbox"/>	BACnet Operator Display	(B-OD)
<input type="checkbox"/>	BACnet Building Controller	(B-BC)
<input type="checkbox"/>	BACnet Advanced Application Controller	(B-AAC)
<input checked="" type="checkbox"/>	BACnet Application Specific Controller	(B-ASC)
<input type="checkbox"/>	BACnet Smart Sensor	(B-SS)
<input type="checkbox"/>	BACnet Smart Actuator	(B-SA)

### 1.3 BACnet interoperability building blocks supported (Annex K)

#### Data sharing

<input type="checkbox"/>	Data Sharing – Read Property-A	DS-RP-A
<input checked="" type="checkbox"/>	Data Sharing – Read Property-B	DS-RP-B
<input type="checkbox"/>	Data Sharing – Read Property Multiple-A	DS-RPM-A
<input checked="" type="checkbox"/>	Data Sharing – Read Property Multiple-B	DS-RPM-B
<input type="checkbox"/>	Data Sharing – Write Property-A	DS-WP-A
<input checked="" type="checkbox"/>	Data Sharing – Write Property-B	DS-WP-B
<input type="checkbox"/>	Data Sharing – Write Property Multiple-A	DS-WPM-A
<input checked="" type="checkbox"/>	Data Sharing – Write Property Multiple-B	DS-WPM-B
<input type="checkbox"/>	Data Sharing – Change of Value -A	DS-COV-A
<input checked="" type="checkbox"/>	Data Sharing – Change of Value -B	DS-COV-B
<input type="checkbox"/>	Data Sharing – Change of Value Property -A	DS-COVP-A
<input type="checkbox"/>	Data Sharing – Change of Value Property -B	DS-COVP-B
<input type="checkbox"/>	Data Sharing – Change of Value-Unsolicited-A	DS-COVU-A
<input type="checkbox"/>	Data Sharing – Change of Value-Unsolicited-B	DS-COVU-B
<input type="checkbox"/>	Data Sharing – View-A	DS-V-A
<input type="checkbox"/>	Data Sharing – Advanced View-A	DS-AV-A
<input type="checkbox"/>	Data Sharing – Modify-A	DS-M-A
<input type="checkbox"/>	Data Sharing – Advanced Modify-A	DS-AM-A

#### Alarm and event management

<input type="checkbox"/>	Alarm and Event – Notification-A	AE-N-A
<input type="checkbox"/>	Alarm and Event – Notification Internal-B	AE-N-I-B
<input type="checkbox"/>	Alarm and Event – Notification External-B	AE-N-E-B
<input type="checkbox"/>	Alarm and Event – ACK-A	AE-ACK-A
<input type="checkbox"/>	Alarm and Event – ACK-B	AE-ACK-B
<input type="checkbox"/>	Alarm and Event – Alarm Summary-B	AE-ASUM-B
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-B	AE-ESUM-B
<input type="checkbox"/>	Alarm and Event – Information-B	AE-INFO-B
<input type="checkbox"/>	Alarm and Event – Life Safety-A	AE-LS-A
<input type="checkbox"/>	Alarm and Event – Life Safety-B	AE-LS-B
<input type="checkbox"/>	Alarm and Event – View Notifications-A	AE-VN-A
<input type="checkbox"/>	Alarm and Event – Advanced View Notifications-A	AE-AVN-A
<input type="checkbox"/>	Alarm and Event – View and Modify-A	AE-VM-A
<input type="checkbox"/>	Alarm and Event – Advanced View and Modify-A	AE-AVM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary View-A	AE-AS-A
<input type="checkbox"/>	Alarm and Event – Event Log View-A	AE-ELV-A
<input type="checkbox"/>	Alarm and Event – Event Log View and Modify-A	AE-ELVM-A
<input type="checkbox"/>	Alarm and Event – Event Log Internal-B	AE-EL-I-B
<input type="checkbox"/>	Alarm and Event – Event Log External-B	AE-EL-E-B

**Alarm and event management****Historical/Deprecated BIBBs**

<input type="checkbox"/>	Alarm and Event – Alarm Summary-A	AE-ASUM-A
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-A	AE-ESUM-A
<input type="checkbox"/>	Alarm and Event – Information-A	AE-INFO-A

**Scheduling**

<input type="checkbox"/>	Scheduling – Internal-B	SCHED-I-B
<input type="checkbox"/>	Scheduling – External-B	SCHED-E-B
<input type="checkbox"/>	Scheduling – Advanced View Modify-A	SCHED-AVM-A
<input type="checkbox"/>	Scheduling – View Modify-A	SCHED-VM-A
<input type="checkbox"/>	Scheduling – Weekly Schedule-A	SCHED-WS-A
<input type="checkbox"/>	Scheduling – Weekly Schedule Internal-B	SCHED-WS-I-B
<input type="checkbox"/>	Scheduling – Readable-B	SCHED-R-B

**Historical/Deprecated BIBBs**

<input type="checkbox"/>	Scheduling – A	SCHED-A
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**Trending**

<input type="checkbox"/>	Trending – Viewing and Modifying Trends-A	T-VMT-A
<input type="checkbox"/>	Trending – Viewing and Modifying Internal-B	T-VMT-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying External-B	T-VMT-E-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values External -B	T-VMMV-E-B
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-A	T-AMVR-A
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-B	T-AMVR-B
<input type="checkbox"/>	Trending – View-A	T-V-A
<input type="checkbox"/>	Trending – Advanced View and Modify-A	T-AVM-A
<input type="checkbox"/>	Trending – Archival-A	T-A-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-A	T-ATR-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-B	T-ATR-B

**Historical/Deprecated BIBBs**

<input type="checkbox"/>	Trending – Viewing and Modifying Trends-A	T-VMT-A
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A

**Device management**

<input type="checkbox"/>	Device Management – Dynamic Device Binding-A	DM-DDB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-B	DM-DDB-B
<input type="checkbox"/>	Device Management – Dynamic Object Binding-A	DM-DOB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-B	DM-DOB-B
<input type="checkbox"/>	Device Management – Device Communication Control-A	DM-DCC-A
<input checked="" type="checkbox"/>	Device Management – Device Communication Control-B	DM-DCC-B
<input type="checkbox"/>	Device Management – Private Transfer-A	DM-PT-A
<input type="checkbox"/>	Device Management – Private Transfer-B	DM-PT-B
<input type="checkbox"/>	Device Management – Text Message-A	DM-TM-A
<input type="checkbox"/>	Device Management – Text Message-B	DM-TM-B

**Device management**

<input type="checkbox"/>	Device Management – Time Synchronization-A	DM-TS-A
<input type="checkbox"/>	Device Management – Time Synchronization-B	DM-TS-B
<input type="checkbox"/>	Device Management – UTC Time Synchronization-A	DM-UTC-A
<input type="checkbox"/>	Device Management – UTC Time Synchronization-B	DM-UTC-B
<input type="checkbox"/>	Device Management – Reinitialize Device-A	DM-RD-A
<input checked="" type="checkbox"/>	Device Management – Reinitialize Device-B	DM-RD-B
<input type="checkbox"/>	Device Management – Backup and Restore-A	DM-BR-A
<input type="checkbox"/>	Device Management – Backup and Restore-B	DM-BR-B
<input type="checkbox"/>	Device Management – Restart-A	DM-R-A
<input type="checkbox"/>	Device Management – Restart-B	DM-R-B
<input type="checkbox"/>	Device Management – List Manipulation-A	DM-LM-A
<input type="checkbox"/>	Device Management – List Manipulation-B	DM-LM-B
<input type="checkbox"/>	Device Management – Object Creation and Deletion-A	DM-OCD-A
<input type="checkbox"/>	Device Management – Object Creation and Deletion-B	DM-OCD-B
<input type="checkbox"/>	Device Management – Virtual Terminal-A	DM-VT-A
<input type="checkbox"/>	Device Management – Virtual Terminal-B	DM-VT-B
<input type="checkbox"/>	Device Management – Automatic Network Mapping-A	DM-ANM-A
<input type="checkbox"/>	Device Management – Automatic Device Mapping-A	DM-ADM-A
<input type="checkbox"/>	Device Management – Automatic Time Synchronization-A	DM-ATS-A
<input type="checkbox"/>	Device Management – Manual Time Synchronization-A	DM-MTS-A

**Network management**

<input type="checkbox"/>	Network Management – Connection Establishment-A	NM-CE-A
<input type="checkbox"/>	Network Management – Connection Establishment-B	NM-CE-B
<input type="checkbox"/>	Network Management – Router Configuration-A	NM-RC-A
<input type="checkbox"/>	Network Management – Router Configuration-B	NM-RC-B

## 1.4 Standard object types supported

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Analog Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calendar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Command	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Enrollment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
File	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Class	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Averaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accumulator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse-Converter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log Multiple	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structured-View	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Door (unassigned)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Credential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Rights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Credential Data Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bitstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Characterstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Date Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Octetstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positive Integer Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



## Analog Input

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Update_Interval	<input type="checkbox"/>		
Units	<input checked="" type="checkbox"/>	R	
Min_Pres_Value	<input checked="" type="checkbox"/>	R	
Max_Pres_Value	<input checked="" type="checkbox"/>	R	
Resolution	<input checked="" type="checkbox"/>	R	
COV_Increment	<input checked="" type="checkbox"/>	W	
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
High_Limit	<input type="checkbox"/>		
Low_Limit	<input type="checkbox"/>		
Deadband	<input type="checkbox"/>		
Limit_Enable	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

## Analog Output

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	R	
Units	<input checked="" type="checkbox"/>	R	
Min_Pres_Value	<input checked="" type="checkbox"/>	R	
Max_Pres_Value	<input checked="" type="checkbox"/>	R	
Resolution	<input checked="" type="checkbox"/>	R	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	R	
COV_Increment	<input type="checkbox"/>		
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
High_Limit	<input type="checkbox"/>		
Low_Limit	<input type="checkbox"/>		
Deadband	<input type="checkbox"/>		
Limit_Enable	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Analog Value

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	R	
Units	<input checked="" type="checkbox"/>	R	
Priority_Array	<input type="checkbox"/>		
Relinquish_Default	<input type="checkbox"/>		
COV_Increment	<input type="checkbox"/>		
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
High_Limit	<input type="checkbox"/>		
Low_Limit	<input type="checkbox"/>		
Deadband	<input type="checkbox"/>		
Limit_Enable	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

**Binary Input**

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Polarity	<input checked="" type="checkbox"/>	R	
Inactive_Text	<input checked="" type="checkbox"/>	R	
Active_Text	<input checked="" type="checkbox"/>	R	
Change_Of_State_Time	<input type="checkbox"/>		
Change_Of_State_Count	<input type="checkbox"/>		
Time_Of_State_Count_Reset	<input type="checkbox"/>		
Elapsed_Active_Time	<input type="checkbox"/>		
Time_Of_Active_Time_Reset	<input type="checkbox"/>		
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
Alarm_Value	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

**Binary Value**

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	R	
Inactive_Text	<input checked="" type="checkbox"/>	R	
Active_Text	<input checked="" type="checkbox"/>	R	
Change_Of_State_Time	<input type="checkbox"/>		
Change_Of_State_Count	<input type="checkbox"/>		
Time_Of_State_Count_Reset	<input type="checkbox"/>		
Elapsed_Active_Time	<input type="checkbox"/>		
Time_Of_Active_Time_Reset	<input type="checkbox"/>		
Minimum_Off_Time	<input type="checkbox"/>		
Minimum_On_Time	<input type="checkbox"/>		
Priority_Array	<input type="checkbox"/>		
Relinquish_Default	<input type="checkbox"/>		
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
Alarm_Value	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Device

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	W	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
System_Status	<input checked="" type="checkbox"/>	R	
Vendor_Name	<input checked="" type="checkbox"/>	R	
Vendor_Identifier	<input checked="" type="checkbox"/>	R	
Model_Name	<input checked="" type="checkbox"/>	R	
Firmware_Revision	<input checked="" type="checkbox"/>	R	
Application_Software_Version	<input checked="" type="checkbox"/>	R	
Location	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Protocol_Version	<input checked="" type="checkbox"/>	R	
Protocol_Revision	<input checked="" type="checkbox"/>	R	
Protocol_Services_Supported	<input checked="" type="checkbox"/>	R	
Protocol_Object_Types_Supported	<input checked="" type="checkbox"/>	R	
Object_List	<input checked="" type="checkbox"/>	R	
Structured_Object_List	<input type="checkbox"/>		
Max_APDU_Length_Accepted	<input checked="" type="checkbox"/>	R	
Segmentation_Supported	<input checked="" type="checkbox"/>	R	
Max_Segments_Accepted	<input checked="" type="checkbox"/>	R	
VT_Classes_Supported	<input type="checkbox"/>		
Active_VT_Sessions	<input type="checkbox"/>		
Local_Time	<input type="checkbox"/>		
Local_Date	<input type="checkbox"/>		
UTC_Offset	<input type="checkbox"/>		
Daylight_Savings_Status	<input type="checkbox"/>		
APDU_Segment_Timeout	<input checked="" type="checkbox"/>	R	
APDU_Timeout	<input checked="" type="checkbox"/>	R	
Number_Of_APDU_Retries	<input checked="" type="checkbox"/>	R	
List_Of_Session_Keys	<input type="checkbox"/>		
Time_Synchronization_Recipients	<input type="checkbox"/>		
Max_Master	<input checked="" type="checkbox"/>	R	
Max_Info_Frames	<input checked="" type="checkbox"/>	R	
Device_Address_Binding	<input checked="" type="checkbox"/>	R	
Database_Revision	<input checked="" type="checkbox"/>	R	
Configuration_Files	<input type="checkbox"/>		
Last_Restore_Time	<input type="checkbox"/>		
Backup_Failure_Timeout	<input type="checkbox"/>		
Backup_Preparation_Time	<input type="checkbox"/>		
Restore_Preparation_Time	<input type="checkbox"/>		
Restore_Completion_Time	<input type="checkbox"/>		
Backup_And_Restore_State	<input type="checkbox"/>		
Active_COV_Subscriptions	<input checked="" type="checkbox"/>	R	
Slave_Proxy_Enable	<input type="checkbox"/>		
Manual_Slave_Adress_Binding	<input type="checkbox"/>		

Properties	supported	Readable/ Writable	Range restrictions
Auto_Slave_Discovery	<input type="checkbox"/>		
Slave_Address_Binding	<input type="checkbox"/>		
Last_Restart_Reason	<input type="checkbox"/>		
Time_Of_Device_Restart	<input type="checkbox"/>		
Restart_Notification_Recipients	<input type="checkbox"/>		
UTC_Time_Synchronization_Recipients	<input type="checkbox"/>		
Time_Synchronization_Interval	<input type="checkbox"/>		
Align_Intervals	<input type="checkbox"/>		
Interval_Offset	<input type="checkbox"/>		
Serial_Number (Proprietary)	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

**Multistate Input**

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	R	
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
Alarm_Values	<input type="checkbox"/>		
Fault_Values	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamp	<input type="checkbox"/>		
Event_Message_Texts	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	



**Multistate Value**

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	R	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	R	
Priority_Array	<input type="checkbox"/>		
Relinquish_Default	<input type="checkbox"/>		
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
Alarm_Values	<input type="checkbox"/>		
Fault_Values	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

## Positive Integer Value

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	R	
Units	<input checked="" type="checkbox"/>	R	
Priority_Array	<input type="checkbox"/>		
Relinquish_Default	<input type="checkbox"/>		
COV_Increment	<input type="checkbox"/>		
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
High_Limit	<input type="checkbox"/>		
Low_Limit	<input type="checkbox"/>		
Deadband	<input type="checkbox"/>		
Limit_Enable	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

## 1.5 Segmentation capability

<input checked="" type="checkbox"/>	Able to transmit segmented messages	Window size	16
<input checked="" type="checkbox"/>	Able to receive segmented messages	Window size	16

## 1.6 Data Link Layer options

The simultaneously supported Data Link Layers of a product are listed with the product model number.

<input type="checkbox"/>	BACnet IP, (Annex J)		
<input type="checkbox"/>	BACnet IP, (Annex J), Foreign Device		
<input type="checkbox"/>	ISO 8802-3, Ethernet (Clause 7)		
<input type="checkbox"/>	ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)		
<input type="checkbox"/>	ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s)		
<input checked="" type="checkbox"/>	MS/TP master (Clause 9), baud rate(s)	:	9600 19200 38400

		: 57600 : 76800 : 115200
<input type="checkbox"/>	MS/TP slave (Clause 9), baud rate(s)	
<input type="checkbox"/>	Point-To-Point, EIA 232 (Clause 10), baud rate(s)	:
<input type="checkbox"/>	Point-To-Point, modem, (Clause 10), baud rate(s)	:
<input type="checkbox"/>	LonTalk, (Clause 11), medium	:
<input type="checkbox"/>	Other	

## 1.7 Device address binding

Is static device binding supported?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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## 1.8 Networking options

<input type="checkbox"/>	Router, Clause 6 (remote management functionality/BACnet PTP)
<input type="checkbox"/>	Annex H, BACnet Tunnelling Router over IP
<input type="checkbox"/>	BACnet/IP Broadcast Management Device (BBMD) Number of BDT entries: Number of FDT entries:
	Does the BBMD support registrations by foreign devices? <input type="checkbox"/> Yes <input type="checkbox"/> No

## 1.9 Character sets supported

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Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

<input checked="" type="checkbox"/> UTF-8 (or ANSI X3.4)	<input type="checkbox"/> IBM / Microsoft DBCS	<input type="checkbox"/> ISO 8859-1
<input type="checkbox"/> ISO 10646 (UCS-2)	<input type="checkbox"/> ISO 10646 (UCS-4)	<input type="checkbox"/> JIS C 6226