



Flexit GO

NO**VEILEDNING**

Ekstern BACnet-kommunikasjon

SV**ANVISNING**

Extern BACnet-kommunikation

DA**VEJLEDNING**

Ekstern BACnet-kommunikation

FI**OHJE**

Ulkoinen BACnet-tiedonsiirto

EN**INSTRUCITON**

External BACnet communication

NO

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NO Våre produkter er i kontinuerlig utvikling og vi forbeholder oss derfor retten til endringer. Vi tar også forbehold om eventuelle trykkfeil som måtte oppstå.

SV Våra produkter utvecklas ständigt och vi förbehåller oss därför rätten till ändringar. Vi tar inte heller ansvar för eventuella feltryck.

DA Vores produkter udvikles løbende, og vi forbeholder os derfor retten til ændringer. Vi tager ligeledes forbehold for eventuelle trykfejl, som måtte forekomme.

FI Tuotteitamme kehitetään jatkuvasti. Sen vuoksi pidätämme oikeuden muutoksiin. Emme myöskään vastaa mahdollisista painovirheistä.

EN Our products are subject to continuous development and we therefore reserve the right to make changes. We also disclaim liability for any printing errors that may occur.

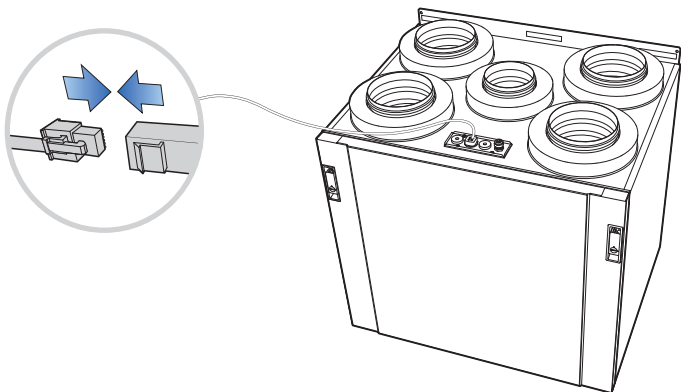
1. Om BACnet

BACnet (Building Automation and Controls network) er utviklet av ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers). BACnet er en global ISO-standard, nasjonal standard i USA, europeisk prestandard og brukes i over 30 land. BACnet er en datakommunikasjonsprotokoll eller et sett kommunikasjonsregler som ASHRAE utviklet for å standardisere kommunikasjonen mellom komponenter i byggautomasjonssystemer. BACnet gjør det mulig for systemer fra forskjellige leverandører, som VVS-, belysnings, sikkerhets- og brannsystemer å kommunisere med hverandre ved hjelp av standardiserte metoder for å presentere, anmode om, tolke og transportere informasjon.

Flexit Nordic og EcoNordic-seriene har BACnet IP som standard.

Dato:	3. mars 2020
Leverandørnavn:	Siemens Building Products (leverandør-ID 7)
Produktnavn:	S300
Produktmodellnummer:	POS3.6715
BACnet-protokollversjon:	Revisjon1.14
Applikasjonsprogram-vareversjon	AAS-20:SU=SiUn;APT=HvacFnc-t21y_A;APTV=2.419 og høyere; 20:SU=SiUn;APT=HvacFnc-t21y_A;APTV=2.419 og høyere;
Firmware-revisjon FW=03.39.02.25:	FW=03.39.02.25: BL=00.05.02.0003; SVS-300.4: SBC=13.24

2. Koble til enheten



Koble ethernet-kabelen øverst på produktet til nettverket i bygningen.

3. Konfigurasjon

Parameter	Standardverdi
Enhets-ID	2

For å endre BACnet-innstillingene, må produktet kobles til et lokalt nettverk. Sørg for at mobilen/nettbrettet er tilkoblet samme lokale nettverk og åpne Flexit GO-appen. Koble til produktet som installatør (1000) og gå til Annet> Installatør> BACnet-innstillinger. Her kan du endre BACnet-innstillingene. Produktet starter på nytt for å gjennomføre endringene.

For å endre Enhets-ID mm via YABE.
Åpne: Infra'NwkPortIP Propriarity:0 (264:0)

4832 Property: Device instance number
4833 Property: Device name
4874 Property: Enable (IP) DHCP
4875 Property: IP default gateway
4876 Property: IP subnet mask
4877 Property: IP address
4878 Property: UDP port
4879 Property: Network number
4883 Property: BACnet MAC address

For å lagre endringer set 4894 Property til 1. Aggregatet vil starte om og nye instillingene begynner å gjelde.

4. Lese/skrive verdier til enheten

BACnet-objekter er oppført i et separat dokument som kalles "BACnet list"

Lese verdier:

Ingen restriksjoner.

Skrive verdier:

For objekter som har prioritetsordninger, bruk **prio 13** for å skrive.



ADVARSEL! Skriv aldri verdien i en annen prioritet enn 13. Det kan føre til at du mister kontrollen over enheten.



INFO! Veiledningen er inndelt i fem ulike språk for kapittel 1-4. Gå nå videre til side 9 hvor du finner kapittel 5.

1. Om BACnet

BACnet (nätverk för byggnadsautomation och styrning) utvecklades av ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers). BACnet är en global ISO-standard, amerikansk nationell standard och europeisk förstandard och används i mer än 30 länder.

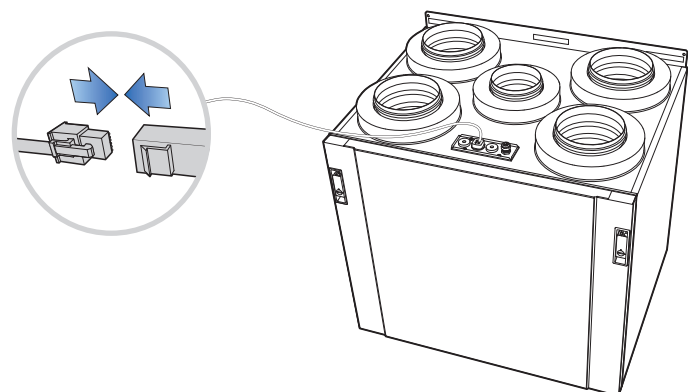
BACnet är ett datakommunikationsprotokoll eller en uppsättning kommunikationsregler som ASHRAE skapade för att standardisera kommunikation mellan komponenter i byggnadsautomationssystem.

BACnet gör det möjligt för system från olika leverantörer, som HVAC, belysnings-, säkerhets- och brandsystem, att kommunicera med varandra genom att tillhandahålla standardiserade metoder för att presentera, begära, tolka och transportera information.

Flexit Nordic- och EcoNordic-serierna är utrustade med BACnet IP som standard.

Datum:	3 mars 2020
Leverantörsnamn:	Siemens Building Products (leverantörs-ID 7)
Produktnamn:	S300
Produktmodellnummer:	POS3.6715
BACnet-protokollversion:	Revision1.14
Applikationsprogramvarans version:	AAS-20:SU=SiUn;APT=HvacFnc-t21y_A;APTV=2.419 och högre; 20:SU=SiUn;APT=HvacFnc-t21y_A;APTV=2.419 och högre;
Revision för inbyggd programvara FW=03.39.02.25:	FW=03.39.02.25: BL=00.05.02.0003; SVS-300.4: SBC=13.24

2. Ansluta till enheten



Anslut Ethernet-kabeln längst upp på produkten till nätverket i byggnaden.

3. Konfiguration

Parameter	Standardvärde
Enhets-ID	2

För att ändra BACnet-inställningarna måste produkten anslutas till ett lokalt nätverk. Se till att du är ansluten till samma lokala nätverk med din mobil/surfplatta och starta Flexit Go-appen. Anslut till produkten som installerare (1000) och navigera till Övrigt > Installerare > BACnet-inställningar. Här kan du ändra BACnet-inställningarna. Produkten startar om för att ändringarna ska genomföras.

För att ändra Enhets-ID mm via YABE.
Öppna: InfraNwkPortIP Propriarity:0 (264:0)

4832 Property: Device instance number
4833 Property: Device name
4874 Property: Enable (IP) DHCP
4875 Property: IP default gateway
4876 Property: IP subnet mask
4877 Property: IP address
4878 Property: UDP port
4879 Property: Network number
4883 Property: BACnet MAC address

För att spara ändringen sätt 4894 Property till 1. Aggregatet startar om och de nya inställningarna börjar gälla.

4. Läs/skriv värden till enheten

BACnet-objekt anges i ett separat dokument som kallas "BACnet list"

Läs värden:
Inga restriktioner.

Skriv värden:
För objekt som har prioritetsmatriser ska endast **prio 13** användas för att skriva.



WARNING! Skriv aldrig värden i en annan prioritet än 13. Om det görs kan kontrollen över enheten förloras.



INFO! Manualen är indelad i fem olika språk för avsnitt 1-4. Gå nu vidare till sida 9 där du hittar avsnitt 5.

1. Om BACnet

BACnet (Building Automation and Controls network) er udviklet af ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers). BACnet er en global ISO-standard, amerikansk national standard og europæisk præstandard, som anvendes i mere end 30 lande.

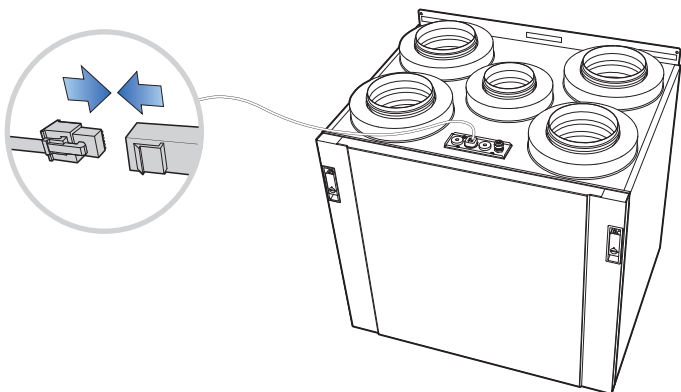
BACnet er en datakommunikationsprotokol eller et sæt kommunikationsregler, som ASHRAE har udviklet for at standardisere kommunikationen mellem komponenter i bygningsautomatiseringssystemer.

BACnet gør det muligt for systemer fra forskellige leverandører, såsom HVAC-, belysnings-, sikkerheds- og brandsystemer at kommunikere med hinanden ved hjælp af standardiserede metoder til præsentation, anmodning, fortolkning og transport af oplysninger.

Flexit Nordic- og EcoNordic-serierne er som standard forsynet med BACnet IP.

Dato:	03. mar. 2020
Leverandørnavn:	Siemens Building Products (leverandør-id 7)
Produktnavn:	S300
Produktmodelnummer:	POS3.6715
BACnet-protokolversion:	Revision1.14
Applikationens software-version:	AAS-20:SU=SiUn;APT=HvacFnc-t21y_A;APTV=2.419 og højere, 20:SU=SiUn;APT=HvacFnc-t21y_A;APTV=2.419 og højere,
Firmwarerevision FW=03.39.02.25:	FW=03.39.02.25: BL=00.05.02.0003; SVS-300.4: SBC=13.24

2. Tilslutning af enheden



Tilslut Ethernet-kablet oven på produktet til netværket i bygningen.

3. Konfiguration

Parameter	Standardværdi
Enheds-id	2

Ændring af BACnet-indstillingerne kræver, at produktet er tilsluttet et lokalt netværk. Sørg for, at din mobil/tablet er tilsluttet det samme lokale netværk, og åbn Flexit GO-appen. Opret forbindelse til produktet som installatør (1000), og gå til Andet> Installatør> BACnet-indstillinger. Herfra er det muligt at ændre BACnet-indstillingerne. Produktet genstarter for at implementere ændringerne.

For at ændre enheds-id osv. via YABE.

Åbne: Infra'NwkPortIP Propriarity:0 (264:0)

4832 Property: Device instance number

4833 Property: Device name

4874 Property: Enable (IP) DHCP

4875 Property: IP default gateway

4876 Property: IP subnet mask

4877 Property: IP address

4878 Property: UDP port

4879 Property: Network number

4883 Property: BACnet MAC address

For at gemme ændringer skal du indstille 4894 Property til 1. Enheden genstarter, og de nye indstillinger træder i kraft.

4. Læse-/skriveværdier til enheden

BACnet-objekterne er angivet separat dokument kaldet "BACnet list"

Læseværdier:

Ingen restriktioner.

Skriveværdier:

Anvend kun **prio 13** til skrivning til objekter med prioriterede systemer.



FORSIGTIG! Skriv aldrig værdier med andre prioriteter end 13. Dette kan medføre tab af kontrol over enheden.



INFO! Instruktionerne er opdelt i fem forskellige sprog i kapitel 1-4. Fortsæt til kapitel 5 på side 9.

1. Tietoja BACnet-protokollasta

BACnet (Building Automation and Controls network) on Amerikan LVI-insinöörien liiton (American Society of Heating, Refrigerating, and Air-Conditioning Engineers - ASHRAE) kehittämä tiedonsiirtoprotokolla. BACnet on maailmanlaajuinen ISO-standardi, Amerikan kansallinen standardi ja eurooppalainen esistandardi, joka on käytössä yli 30 maassa.

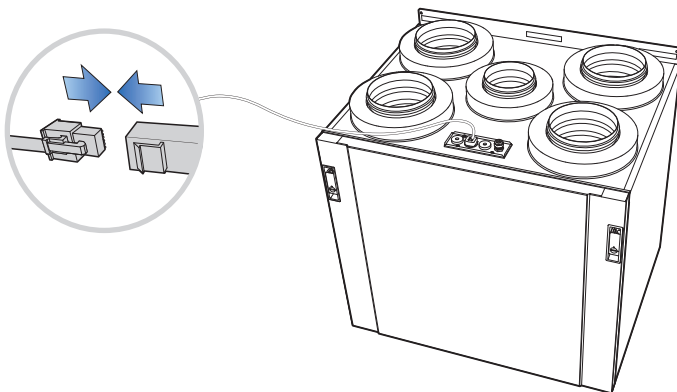
BACnet on tiedonsiirtoprotokolla, eli joukko tiedonsiirtoa koskevia sääntöjä, jotka ASHRAE on luonut rakennusautomaatiojärjestelmän komponenttien välisen tiedonsiirron standardoimiseksi.

BACnetin avulla eri toimittajien järjestelmät, kuten LVI-, valaistus-, turva- ja palojärjestelmät, voivat kommunikoida keskenään BACnetin tarjotessa standardoituja menetelmiä tietojen esittämiseen, pyytämiseen, tulkintaan ja siirtämiseen.

Flexit Nordic- ja EcoNordic -sarjoissa on mukana vakiona BACnet IP.

Päiväys:	3.3.2020
Myyjän nimi:	Siemens Building Products (Vendor ID 7)
Tuotteen nimi:	S300
Tuotteen mallinumero:	POS3.6715
BACnet-protokollan versio:	Revisio 1.14
Sovellusohjelmiston versio:	AAS-20:SU=SiUn;APT=HvacFnc-t21y_A;APTV=2.419 ja myöhempi; 20:SU=SiUn;APT=HvacFnc-t21y_A;APTV=2.419 ja myöhempi;
Laitteohjelmiston revisio FW=03.39.02.25:	FW=03.39.02.25: BL=00.05.02.0003; SVS-300.4: SBC=13.24

2. Liittäminen yksikköön



Kytke laitteen päällä oleva Ethernet-kaapeli rakennuksen verkkoon.

3. Kokoonpano

Parametri	Oletusarvo
Laitetunnus	2

BACnet-asetusten muuttaminen edellyttää, että laite on liitetty paikalliseen verkkoon. Varmista, että sinulla on yhteys samaan paikalliseen verkkoon matkapuhelimestasi tai tabletistasi, ja käynnistä Flexit GO -sovellus. Ota yhteys tuotteeseen asentajana (1000) ja siirry kohtaan Other > Installer > BACnet settings. Tällä voit muuttaa BACnet-asetuksia. Muutokset tulevat voimaan, kun käynnistät tuotteen uudelleen.

Yksikkötunnuksen jne. muuttaminen YABEN kautta.
Avoin: InfraNwkPortIP Propriarity:0 (264:0)

4832 Ominaisuus: Laitteen ilmentymän numero

4833 Ominaisuus: Laitteen nimi

4874 Ominaisuus: Ota (IP) DHCP käyttöön

4875 Ominaisuus: IP-oletusyhdykäytävä

4876 Ominaisuus: IP-aliverkon peite

4877 Ominaisuus: IP-osoite

4878 Ominaisuus: UDP-portti

4879 Kiinteistö: Verkkonumero

4883 Ominaisuus: BACnet MAC-osoite

Tallentaaksesi muutokset aseta 4894 Property arvoon 1. Laite käynnistyy uudelleen ja uudet asetukset tulevat voimaan.

4. Lukee arvot yksiköstä / kirjoittaa arvot yksikköön

BACnet-objektit on lueteltu erillisessä dokumentissa, jonka nimi on "BACnet list"

Lue arvot:

Ei rajoituksia.

Kirjoita arvot:

Jos objektille on asetettu eri prioriteetteja, käytä vain **prio 13** -prioriteettia.



VAROITUS! Älä koskaan kirjoita muita kuin prioriteetin 13 alaisia arvoja. Jos kirjoitat, yksikkö ei ehkä enää ole hallinnassasi.



INFO! Ohjeet on jaettu viiteen eri kieleen lukujen 1–4 osalta. Siirry sivulle 9, jolla on luku 5.

1. About BACnet

BACnet (Building Automation and Controls network) was developed by the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE). BACnet is an ISO global standard, American national standard, a European pre-standard, and is used in more than 30 countries.

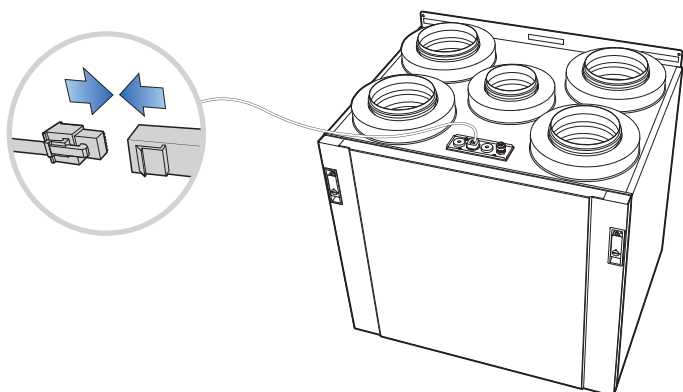
BACnet is a data communication protocol, or set of communication rules, that ASHRAE created in order to standardize communication between building automation system components.

BACnet allows systems from various vendors, such as HVAC, lighting, security and fire systems, to communicate with each other by providing standardized methods for presenting, requesting, interpreting, and transporting information.

Flexit Nordic and EcoNordic series are equipped with BACnet IP as standard.

Date:	Mar. 03rd 2020
Vendor name:	Siemens Building Products (Vendor ID 7)
Product name:	S300
Product model number:	POS3.6715
BACnet protocol version:	Revision1.14
Application software version:	AAS-20;SU=SiUn;APT=HvacFnc-t21y_A;APTV=2.419 and above; 20;SU=SiUn;APT=HvacFnc-t21y_A;APTV=2.419 and above;
Firmware revision FW=03.39.02.25:	FW=03.39.02.25: BL=00.05.02.0003; SVS-300.4: SBC=13.24

2. Connecting to the unit



Connect the ethernet cable on top of the product to the network in the building.

3. Configuration

Parameter	Default value
Device ID	2

In order to change the BACnet settings, the product must be connected to a local network. Make sure you are connected to the same local network with your mobile / tablet and launch the Flexit GO app. Connect to the product as installer (1000) and navigate to Other> Installer> BACnet settings. From here you can change the BACnet settings. To apply the changes, the product restarts.

To change the Unit ID etc. via YABE.
Open: Infra'NwkPortIP Propriarity:0 (264:0)

4832 Property: Device instance number
4833 Property: Device name
4874 Property: Enable (IP) DHCP
4875 Property: IP default gateway
4876 Property: IP subnet mask
4877 Property: IP address
4878 Property: UDP port
4879 Property: Network number
4883 Property: BACnet MAC address

To save changes set 4894 Property to 1.
The unit will restart and the new settings will take effect.

4. Read/write values to the unit

BACnet objets are listed in a separate document called "BACnet list"

Read values:

No restrictions.

Write values:

For objects that have priority arrays, only use **prio 13** to write.



CAUTION! Never write values in other priority than 13. Doing so may set the unit out of control.



INFO! The instruction is divided into five different languages for chapters 1-4. Now proceed to page 9 where you will find chapter 5.

5. BACnet standardized device profile (Annex L)

	BACnet Advanced Workstation	(B-AWS)
	BACnet Operator Workstation	(B-OWS)
	BACnet Operator Display	(B-OD)
	BACnet Building Controller	(B-BC)
	BACnet Advanced Application Controller	(B-AAC)
x	BACnet Application Specific Controller	(B-ASC)
	BACnet Smart Sensor	(B-SS)
	BACnet Smart Actuator	(B-SA)

6. BACnet interoperability building blocks supported (Annex K)

Data sharing

	Data Sharing – Read Property-A	DS-RP-A
x	Data Sharing – Read Property-B	DS-RP-B
	Data Sharing – Read Property Multiple-A	DS-RPM-A
x	Data Sharing – Read Property Multiple-B	DS-RPM-B
	Data Sharing – Write Property-A	DS-WP-A
x	Data Sharing – Write Property-B	DS-WP-B
	Data Sharing – Write Property Multiple-A	DS-WPM-A
x	Data Sharing – Write Property Multiple-B	DS-WPM-B
	Data Sharing – Change of Value -A	DS-COV-A
x	Data Sharing – Change of Value -B	DS-COV-B
	Data Sharing – Change of Value Property -A	DS-COVP-A
x	Data Sharing – Change of Value Property -B	DS-COVP-B
	Data Sharing – Change of Value-Unsolicited-A	DS-COVU-A
	Data Sharing – Change of Value-Unsolicited-B	DS-COVU-B
	Data Sharing – View-A	DS-V-A
	Data Sharing – Advanced View-A	DS-AV-A
	Data Sharing – Modify-A	DS-M-A
	Data Sharing – Advanced Modify-A	DS-AM-A

Alarm and event management

	Alarm and Event – Notification-A	AE-N-A
	Alarm and Event – Notification Internal-B	AE-N-I-B
	Alarm and Event – Notification External-B	AE-N-E-B
	Alarm and Event – ACK-A	AE-ACK-A
	Alarm and Event – ACK-B	AE-ACK-B
	Alarm and Event – Alarm Summary-B	AE-ASUM-B
	Alarm and Event – Enrollment Summary-B	AE-ESUM-B
	Alarm and Event – Information-B	AE-INFO-B
	Alarm and Event – Life Safety-A	AE-LS-A
	Alarm and Event – Life Safety-B	AE-LS-B
	Alarm and Event – View Notifications-A	AE-VN-A
	Alarm and Event – Advanced View Notifications-A	AE-AVN-A
	Alarm and Event – View and Modify-A	AE-VM-A
	Alarm and Event – Advanced View and Modify-A	AE-AVM-A
	Alarm and Event – Alarm Summary View-A	AE-AS-A

Alarm and event management

Alarm and Event – Event Log View-A	AE-ELV-A
Alarm and Event – Event Log View and Modify-A	AE-ELVM-A
Alarm and Event – Event Log Internal-B	AE-EL-I-B
Alarm and Event – Event Log Internal-B	AE-EL-E-B
Historical/Deprecated BIBBs	
Alarm and Event – Alarm Summary-A	AE-ASUM-A
Alarm and Event – Enrollment Summary-A	AE-ESUM-A
Alarm and Event – Information-A	AE-INFO-A

Scheduling

Scheduling – Internal-B	SCHED-I-B
Scheduling – External-B	SCHED-E-B
Scheduling – Advanced View Modify-A	SCHED-AVM-A
Scheduling – View Modify-A	SCHED-VM-A
Scheduling – Weekly Schedule-A	SCHED-WS-A
x Scheduling – Weekly Schedule Internal-B	SCHED-WS-I-B
Scheduling – Readable-B	SCHED-R-B
Historical/Deprecated BIBBs	
Scheduling – A	SCHED-A

Trending

Trending – Viewing and Modifying Trends-A	T-VMT-A
Trending – Viewing and Modifying Internal-B	T-VMT-I-B
Trending – Viewing and Modifying External-B	T-VMT-E-B
Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A
Trending – Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
Trending – Viewing and Modifying Multiple Values External -B	T-VMMV-E-B
Trending – Automated Multiple Value Retrieval-A	T-AMVR-A
Trending – Automated Multiple Value Retrieval-B	T-AMVR-B
Trending – View-A	T-V-A
Trending – Advanced View and Modify-A	T-AVM-A
Trending – Archival-A	T-A-A
Trending – Automated Trend Retrieval-A	T-ATR-A
Trending – Automated Trend Retrieval-B	T-ATR-B
Historical/Deprecated BIBBs	
Trending – Viewing and Modifying Trends-A	T-VMT-A
Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A

Device management

Device Management – Time Synchronization-A	DM-TS-A
x Device Management – Time Synchronization-B	DM-TS-B
Device Management – UTC Time Synchronization-A	DM-UTC-A
x Device Management – UTC Time Synchronization-B	DM-UTC-B
Device Management – Reinitialize Device-A	DM-RD-A
x Device Management – Reinitialize Device-B	DM-RD-B
Device Management – Backup and Restore-A	DM-BR-A
Device Management – Backup and Restore-B	DM-BR-B
Device Management – Restart-A	DM-R-A
Device Management – Restart-B	DM-R-B

Device management		
Device Management – List Manipulation-A		DM-LM-A
Device Management – List Manipulation-B		DM-LM-B
Device Management – Object Creation and Deletion-A		DM-OCD-A
Device Management – Object Creation and Deletion-B		DM-OCD-B
Device Management – Virtual Terminal-A		DM-VT-A
Device Management – Virtual Terminal-B		DM-VT-B
Device Management – Automatic Network Mapping-A		DM-ANM-A
Device Management – Automatic Device Mapping-A		DM-ADM-A
Device Management – Automatic Time Synchronization-A		DM-ATS-A
Device Management – Manual Time Synchronization-A		DM-MTS-A

Network management		
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

7. Standard object types supported

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Analog Input	x		
Analog Output	x		
Analog Value	x		
Binary Input	x		
Binary Output	x		
Binary Value	x		
Calendar			
Command			
Device	x		
Event Enrollment			
File			
Group			
Loop			
Multi-State Input			
Multi-State Output			
Notification Class			
Program			
Schedule	x		
Averaging			
Multi-State Value	x		
Trend Log			
Life-Safety-Point			
Life-Safety-Zone			
Accumulator			
Pulse-Converter			
Event Log			

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Global Group			
Trend Log Multiple			
Load Control			
Structured-View	x		
Access Door			
(unassigned)			
Access Credential			
Access Point			
Access Rights			
Access User			
Access Zone			
Credential Data Input			
Network Security			
Bitstring Value			
Characterstring Value			
Date Pattern Value			
Date Value			
Datetime Pattern Value			
Datetime Value			
Integer Value			
Large Analog Value			
Octetstring Value			
Positive Integer Value	x		
Time Pattern Value			
Time Value			

Analog Input

Properties	Supported	Readable/ Writable	Range restrictions
Object_Identifier	x	R	
Object_Name	x	W	
Object_Type	x	R	
Present_Value	x	R	
Description	x	W	
Device_Type	x	R	
Status_Flags	x	R	
Event_State	x	R	
Reliability	x	R	
Out_Of_Service	x	W	
Update_Interval			
Units	x	W	
Min_Pres_Value	x	W	
Max_Pres_Value	x	W	
Resolution	x	W	
COV_Increment	x	W	
Time_Delay			
Notification_Class			
High_Limit			
Low_Limit			
Deadband			
Limit_Enable			
Event_Enable			
Acked_Transitions			
Notify_Type			
Event_Time_Stamps			
Profile_Name	x	R	
Property_List			

Analog Output

Properties	Supported	Readable/ Writable	Range restrictions
Object_Identifier	x	R	
Object_Name	x	W	
Object_Type	x	R	
Present_Value	x	W	
Description	x	W	
Device_Type	x	R	
Status_Flags	x	R	
Event_State	x	R	
Reliability	x	R	
Out_Of_Service	x	W	
Units	x	W	
Min_Pres_Value	x	W	
Max_Pres_Value	x	W	
Resolution	x	W	
Priority_Array	x	R	
Relinquish_Default	x	W	
COV_Increment	x	W	
Time_Delay			
Notification_Class			
High_Limit			
Low_Limit			
Deadband			
Limit_Enable			
Event_Enable			
Acked_Transitions			
Notify_Type			
Event_Time_Stamps			
Profile_Name	x	R	
Property_List			

Analog Value

Properties	Supported	Readable/ Writable	Range restrictions
Object_Identifier	x	R	
Object_Name	x	W	
Object_Type	x	R	
Present_Value	x	W	
Description	x	W	
Status_Flags	x	R	
Event_State	x	R	
Reliability	x	R	
Out_Of_Service	x	W	
Units	x	W	
Priority_Array	x	R	
Relinquish_Default	x	W	
COV_Increment	x	W	
Time_Delay			
Notification_Class			
High_Limit			
Low_Limit			
Deadband			
Limit_Enable			
Event_Enable			
Acked_Transitions			
Notify_Type			
Event_Time_Stamps			
Profile_Name	x	R	
Resolution	x	W	
Property_List			

Binary Input

Properties	Supported	Readable/ Writable	Range restrictions
Object_Identifier	x	R	
Object_Name	x	W	
Object_Type	x	R	
Present_Value	x	R	
Description	x	W	
Device_Type	x	R	
Status_Flags	x	R	
Event_State	x	R	
Reliability	x	R	
Out_Of_Service	x	W	
Polarity	x	W	
Inactive_Text	x	W	
Active_Text	x	W	
Change_Of_State_Time			
Change_Of_State_Count			
Time_Of_State_Count_Reset			
Elapsed_Active_Time			
Time_Of_Active_Time_Reset			
Time_Delay			
Notification_Class			
Alarm_Value			
Event_Enable			
Acked_Transitions			
Notify_Type			
Event_Time_Stamps			
Profile_Name	x	R	
Property_List			

Binary Output

Properties	Supported	Readable/ Writable	Range restrictions
Object_Identifier	x	R	
Object_Name	x	W	
Object_Type	x	R	
Present_Value	x	W	
Description	x	W	
Device_Type	x	R	
Status_Flags	x	R	
Event_State	x	R	
Reliability	x	R	
Out_Of_Service	x	W	
Polarity	x	W	
Inactive_Text	x	W	
Active_Text	x	W	
Change_Of_State_Time			
Change_Of_State_Count			
Time_Of_State_Count_Reset			
Elapsed_Active_Time			
Time_Of_Active_Time_Reset			
Minimum_Off_Time	x	W	
Minimum_On_Time	x	W	
Priority_Array	x	R	
Relinquish_Default	x	W	
Time_Delay			
Notification_Class			
Feedback_Value			
Event_Enable			
Acked_Transitions			
Notify_Type			
Event_Time_Stamps			
Profile_Name	x	R	
Property_List			

Binary Value

Properties	Supported	Readable/ Writable	Range restrictions
Object_Identifier	x	R	
Object_Name	x	W	
Object_Type	x	R	
Present_Value	x	W	
Description	x	W	
Status_Flags	x	R	
Event_State	x	R	
Reliability	x	R	
Out_Of_Service	x	W	
Inactive_Text	x	W	
Active_Text	x	W	
Change_Of_State_Time			
Change_Of_State_Count			
Time_Of_State_Count_Reset			
Elapsed_Active_Time			
Time_Of_Active_Time_Reset			
Minimum_Off_Time	x	W	
Minimum_On_Time	x	W	
Priority_Array	x	R	
Relinquish_Default	x	W	
Time_Delay			
Notification_Class			
Alarm_Value			
Event_Enable			
Acked_Transitions			
Notify_Type			
Event_Time_Stamps			
Profile_Name	x	R	
Property_List			

Device

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

Properties	Supported	Readable/ Writable	Range restrictions
Slave_Address_Binding			
Last_Restart_Reason	X	R	
Time_Of_Device_Restart	X	R	
Restart_Notification_Recipients	X	R	
UTC_Time_Synchronization_Recipients			
Time_Synchronization_Interval			
Align_Intervals			
Interval_Offset			
Profile_Name	X	R	
Property_List			

Multistate Value

Properties	Supported	Readable/ Writable	Range restrictions
Object_Identifier	x	R	
Object_Name	x	W	
Object_Type	x	R	
Present_Value	x	W	
Description	x	W	
Status_Flags	x	R	
Event_State	x	R	
Reliability	x	R	
Out_Of_Service	x	W	
Number_Of_States	x	R	
State_Text	x	R	
Priority_Array	x	R	
Relinquish_Default	x	W	
Time_Delay			
Notification_Class			
Alarm_Values			
Fault_Values			
Event_Enable			
Acked_Transitions			
Notify_Type			
Event_Time_Stamps			
Profile_Name	x	R	
Property_List			

Structure View Object

Properties	Supported	Readable/ Writable	Range restrictions
Object_Identifier	x	R	
Object_Name	x	W	
Object_Type	x	R	
Node_Type	x	R	
Description	x	W	
Subordinate_List	x	R	
Profile_Name	x	R	
Node_Subtype	x	R	
Subordinate_Annotations	x	R	
Property_List			

Positivie integer value Object

Properties	Supported	Readable/ Writable	Range restrictions
Object_Identifier	x	R	
Object_Name	x	W	
Object_Type	x	R	
Present_Value	x	W	
Description	x	W	
Status_Flags	x	R	
Event_State	x	R	
Reliability	x	R	
Out_Of_Service	x	W	
Units	x	W	
Relinquish_Default			
COV_Increment	x	W	
Time_Delay			
Notification_Class			
High_Limit			
Low_Limit			
Deadband			
Limit_Enable			
Event_Enable			
Acked_Transitions			
Notify_Type			
Event_Time_Stamps			
Profile_Name	x	R	
Resolution			
Min_Pres_Value	x	W	
Max_Pres_Value	x	W	
Property_List			

8. Segmentation capability

x	Able to transmit segmented messages	Window size 4
x	Able to receive segmented messages	Window size 4

9. Data Link Layer options

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

x	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, 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)	: 9600 : 19200 : 38400 : 57600 : 76800 : 115200
	Point-To-Point, EIA 232 (Clause 10), baud rate(s)	: 38400
	Point-To-Point, modem, (Clause 10), baud rate(s)	: 38400
	LonTalk, (Clause 11), medium	: TP/FT-10
	Other	

10. Device address binding

	Yes	No
Is static device binding supported?		x

11. Networking options

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

12. Character sets supported

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

x	UTF-8 (or ANSI X3.4)	IBM / Microsoft DBCS	ISO 8859-1
	ISO 10646 (UCS-2)	ISO 10646 (UCS-4)	JIS C 6226



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