

SIEMENS



Climatix™ VVS11

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

Basic Documentation

Legal note

Legal note concept

This guide includes notes that must be followed to prevent damage to property. Notes dealing only with damage to property use the signal word NOTE and an exclamation point. They are depicted as follows:

| | |
|---|---|
| ! | NOTICE |
| | Type and source of hazard Consequences in the event the hazard occurs <ul style="list-style-type: none"> • Measures/prohibitions to prevent the hazard |

Qualified personnel

Only qualified personnel may commission the device/system. Qualified personnel for purposes refers to qualified due to training and experience to recognize and avoid risks when working with this device/system.

Proper use

The device/system described here may only be used in building technical plants and for the described applications only.

The trouble-free and safe operation of the device/system described here requires proper transportation, correct warehousing, mounting, installation, commissioning, operation, and maintenance.

You must comply with permissible ambient conditions. You must comply with the information provided in the Section "Technical data" and notes in the associated documentation.

Fuses, switches, wiring and grounding must comply with local safety regulations for electrical installations. Observe all local and currently valid laws and regulations.

Exemption from liability

The content of this document was reviewed to ensure it matches the hardware and firmware described herein. Deviations cannot be precluded, however, so that we cannot guarantee that the document fully matches the actual device/system. The information provided in this document is reviewed on a regular basis and any required corrections are added to the next edition.



Cyber security disclaimer

Products, solutions and services from Siemens include security functions to ensure the secure operation of building automation and control, fire safety, security management, and physical security systems. The security functions on these products, solutions and services are important components of a comprehensive security concept.

Drafting, implementing and managing a comprehensive and up-to-date security concept, customized to individual needs, is nevertheless necessary, and may result in additional plant- or site-specific preventive measures to ensure secure operation of your site regarding building automation and control, fire safety, security management, and physical security. These measures may include, for example, separating networks, physically protecting system components, user training, multi-level defensive measures, etc.

For additional information on security as part of building technology and our product, solution and service offerings, please contact your Siemens sales representative or project department. We strongly recommend to always comply with our security advisories on the latest security threats, patches and other related measures.

<http://www.siemens.com/cert/en/cert-security-advisories.htm>

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1 About this document

1.1 Document validity

This document is valid for the Climatix BACnet communication modules POL908.00/XXX and POL904.00/XXX with the BSP version 11.04 or higher.

1.2 Revision history

| Version | Date | Changes | Section | Pages |
|---------|-----------------|--|-------------------------|------------------------|
| VVS11 | current version | Completely revised version | | |
| - | 2014-02-18 | Added the Accumulator Object | - | - |
| VVS10 | 2012-03-21 | First edition based on VVS10 to describe current implementation of BACnet communication module | - | - |
| VVS9 | 2011-06-22 | Reworked for VVS9 and BTL | 2.1, 2.4, 2.5, 2.6, 2.7 | 7, 8, 9, 10-17, 19, 20 |
| - | 2009-10-22 | Removed Unsolicited COVs Limit of Max_Master changed to 127 | 2.5 2.7 | 8 15 |
| - | 2009-07-14 | Added data for Trend Log | 2.5, 2.6, 2.7 | 8, 9, 18 |
| VVS8 | 2009-02-27 | Reworked for VVS8 | - | - |
| - | 2008-11-08 | First edition | - | - |

1.3 Before you start

1.3.1 Target readers

This document is a reference information for the following audience:

- BACnet system integrators
- Engineers using the BACnet protocol

1.3.2 Trademarks

The trademark used in this document is listed together with it's legal owner in the following table. The use of this trademark is subject to international and national statutory provisions.

| Trademark | Legal owner |
|-----------|---|
| BACnet™ | American National Standard (ANSI/ASHRAE 135-1995) |

Further to the note in this section, and to facilitate the reading of the text, this trademark will not be indicated elsewhere in the text (e.g. by use of symbol ™).

2 Climatix PICS

2.1 Product information

| | |
|-------------------------------------|---|
| Date | August 9 th 2016 |
| Vendor name | Siemens Building Technologies (Vendor ID 7) |
| Product name | Climatix |
| Product model number | POL908 / POL904 |
| BACnet protocol version | 1.14 |
| Application software version | - |
| Firmware revision | 11.04 |

2.2 Product model number

| Product | Description | Data Link Layer |
|-----------|----------------------------|-----------------|
| POL908.00 | Communication Module IP | IP |
| POL904.00 | Communication Module MS/TP | MS/TP |

2.3 Product description

- Climatix controllers are free programmable controllers for OEM customers.
- The communication modules extend the controller's communication to
 - BACnet-IP
 - MS/TP

2.4 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 checked="" type="checkbox"/> | BACnet Building Controller | (B-BC) |
| <input type="checkbox"/> | BACnet Advanced Application Controller | (B-AAC) |
| <input type="checkbox"/> | BACnet Application Specific Controller | (B-ASC) |
| <input type="checkbox"/> | BACnet Smart Sensor | (B-SS) |
| <input type="checkbox"/> | BACnet Smart Actuator | (B-SA) |

2.5 BACnet interoperability building blocks supported (Annex K)

Data Sharing

| | | |
|-------------------------------------|--|-----------|
| <input checked="" type="checkbox"/> | Data Sharing – Read Property-A | DS-RP-A |
| <input checked="" type="checkbox"/> | Data Sharing – Read Property-B | DS-RP-B |
| <input checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> | Alarm and Event – ACK-B | AE-ACK-B |
| <input checked="" type="checkbox"/> | Alarm and Event – Alarm Summary-B | AE-ASUM-B |
| <input checked="" type="checkbox"/> | Alarm and Event – Enrollment Summary-B | AE-ESUM-B |
| <input checked="" 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 |

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 checked="" type="checkbox"/> | Scheduling – Internal-B | SCHED-I-B |
| <input checked="" 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 |

Historical/Deprecated BIBBs

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

Trending

| | | |
|-------------------------------------|--|------------|
| <input type="checkbox"/> | Trending – Viewing and Modifying Trends-A | T-VMT-A |
| <input checked="" 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 checked="" 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 checked="" 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 |
| <input type="checkbox"/> | Device Management – Time Synchronization-A | DM-TS-A |
| <input checked="" type="checkbox"/> | Device Management – Time Synchronization-B | DM-TS-B |
| <input type="checkbox"/> | Device Management – UTC Time Synchronization-A | DM-UTC-A |
| <input checked="" 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 checked="" 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 checked="" 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 |

2.6 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Binary Value | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Calendar | <input checked="" 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 checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| File | <input checked="" 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Notification Class | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Program | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Schedule | <input checked="" 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 checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" 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 checked="" 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 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| (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"/> |

| Object type | Supported | Can be created dynamically | Can be deleted dynamically |
|------------------------|-------------------------------------|----------------------------|----------------------------|
| Bitstring Value | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Characterstring Value | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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 checked="" 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"/> |

2.7 Standard object types description

Analog Input

| 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 ¹⁾ | - |
| Description | <input checked="" type="checkbox"/> | R | - |
| Device_Type | <input type="checkbox"/> | - | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input checked="" type="checkbox"/> | R ¹⁾ | - |
| 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 type="checkbox"/> | - | - |
| COV_Increment | <input checked="" type="checkbox"/> | W | - |
| Time_Delay | <input checked="" type="checkbox"/> | R | - |
| Notification_Class | <input checked="" type="checkbox"/> | R | - |
| High_Limit | <input checked="" type="checkbox"/> | W | - |
| Low_Limit | <input checked="" type="checkbox"/> | W | - |
| Deadband | <input checked="" type="checkbox"/> | W | - |
| Limit_Enable | <input checked="" type="checkbox"/> | W | - |
| Event_Enable | <input checked="" type="checkbox"/> | W | - |
| Acked_Transitions | <input checked="" type="checkbox"/> | R | - |
| Notify_Type | <input checked="" type="checkbox"/> | R | - |
| Event_Time_Stamps | <input checked="" type="checkbox"/> | R | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |
| Event_Detection_Enable | <input checked="" type="checkbox"/> | R | - |

¹⁾ Is writeable when Out_Of_Service is TRUE

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 type="checkbox"/> | - | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input checked="" type="checkbox"/> | R ¹⁾ | - |
| Out_Of_Service | <input checked="" type="checkbox"/> | W | - |
| Units | <input checked="" type="checkbox"/> | R | - |
| Min_Pres_Value | <input checked="" type="checkbox"/> | R | - |
| Max_Pres_Value | <input checked="" type="checkbox"/> | R | - |
| Resolution | <input type="checkbox"/> | - | - |
| Priority_Array | <input checked="" type="checkbox"/> | R | - |
| Relinquish_Default | <input checked="" type="checkbox"/> | W | - |
| COV_Increment | <input checked="" type="checkbox"/> | W | - |
| Time_Delay | <input checked="" type="checkbox"/> | R | - |
| Notification_Class | <input checked="" type="checkbox"/> | R | - |
| High_Limit | <input checked="" type="checkbox"/> | W | - |
| Low_Limit | <input checked="" type="checkbox"/> | W | - |
| Deadband | <input checked="" type="checkbox"/> | W | - |
| Limit_Enable | <input checked="" type="checkbox"/> | W | - |
| Event_Enable | <input checked="" type="checkbox"/> | W | - |
| Acked_Transitions | <input checked="" type="checkbox"/> | R | - |
| Notify_Type | <input checked="" type="checkbox"/> | R | - |
| Event_Time_Stamps | <input checked="" type="checkbox"/> | R | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |
| Event_Detection_Enable | <input checked="" type="checkbox"/> | R | - |

¹⁾ Is writeable when Out_Of_Service is TRUE

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 type="checkbox"/> | - | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |

| Properties | Supported | Readable / Writable | Range restrictions |
|------------------------|-------------------------------------|---------------------|--------------------|
| Reliability | <input checked="" type="checkbox"/> | R ¹⁾ | - |
| Out_Of_Service | <input checked="" type="checkbox"/> | W | - |
| Units | <input checked="" type="checkbox"/> | R | - |
| Priority_Array | <input checked="" type="checkbox"/> | R | - |
| Relinquish_Default | <input checked="" type="checkbox"/> | W | - |
| COV_Increment | <input checked="" type="checkbox"/> | W | - |
| Time_Delay | <input checked="" type="checkbox"/> | R | - |
| Notification_Class | <input checked="" type="checkbox"/> | R | - |
| High_Limit | <input checked="" type="checkbox"/> | W | - |
| Low_Limit | <input checked="" type="checkbox"/> | W | - |
| Deadband | <input checked="" type="checkbox"/> | W | - |
| Limit_Enable | <input checked="" type="checkbox"/> | W | - |
| Event_Enable | <input checked="" type="checkbox"/> | W | - |
| Acked_Transitions | <input checked="" type="checkbox"/> | R | - |
| Notify_Type | <input checked="" type="checkbox"/> | R | - |
| Event_Time_Stamps | <input checked="" type="checkbox"/> | R | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |
| Event_Detection_Enable | <input checked="" type="checkbox"/> | R | - |

¹⁾ Is writeable when Out_Of_Service is TRUE

Analog Value (variant 2)

| 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 ¹⁾ | - |
| Description | <input checked="" type="checkbox"/> | R | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input type="checkbox"/> | - | - |
| Out_Of_Service | <input checked="" type="checkbox"/> | W ²⁾ | - |
| Units | <input checked="" type="checkbox"/> | R | - |
| Priority_Array | <input type="checkbox"/> | - | - |
| Relinquish_Default | <input type="checkbox"/> | - | - |
| 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"/> | - | - |

| Properties | Supported | Readable / Writable | Range restrictions |
|-------------------|-------------------------------------|---------------------|--------------------|
| Event_Enable | <input type="checkbox"/> | - | - |
| Acked_Transitions | <input type="checkbox"/> | - | - |
| Notify_Type | <input type="checkbox"/> | - | - |
| Event_Time_Stamps | <input type="checkbox"/> | - | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |

1) Is writeable when Out_Of_Service is TRUE

2) Writeability depends on the object, for some objects readonly

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 ¹⁾ | - |
| Description | <input checked="" type="checkbox"/> | R | - |
| Device_Type | <input type="checkbox"/> | - | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input checked="" type="checkbox"/> | R ¹⁾ | - |
| Out_Of_Service | <input checked="" type="checkbox"/> | W | - |
| Polarity | <input checked="" type="checkbox"/> | W | - |
| 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 checked="" type="checkbox"/> | W | Only 0 |
| Time_Of_Active_Time_Reset | <input checked="" type="checkbox"/> | R | - |
| Time_Delay | <input checked="" type="checkbox"/> | R | - |
| Notification_Class | <input checked="" type="checkbox"/> | R | - |
| Alarm_Value | <input checked="" type="checkbox"/> | W | - |
| Event_Enable | <input checked="" type="checkbox"/> | W | - |
| Acked_Transitions | <input checked="" type="checkbox"/> | R | - |
| Notify_Type | <input checked="" type="checkbox"/> | R | - |
| Event_Time_Stamps | <input checked="" type="checkbox"/> | R | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |
| Event_Detection_Enable | <input checked="" type="checkbox"/> | R | - |

1) Is writeable when Out_Of_Service is TRUE

Binary 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 type="checkbox"/> | - | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input checked="" type="checkbox"/> | R ¹⁾ | - |
| Out_Of_Service | <input checked="" type="checkbox"/> | W | - |
| Polarity | <input checked="" type="checkbox"/> | W | - |
| 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 checked="" type="checkbox"/> | W | Only 0 |
| Time_Of_Active_Time_Reset | <input checked="" type="checkbox"/> | R | - |
| Minimum_Off_Time | <input type="checkbox"/> | - | - |
| Minimum_On_Time | <input type="checkbox"/> | - | - |
| Priority_Array | <input checked="" type="checkbox"/> | R | - |
| Relinquish_Default | <input checked="" type="checkbox"/> | W | - |
| Time_Delay | <input checked="" type="checkbox"/> | R | - |
| Notification_Class | <input checked="" type="checkbox"/> | R | - |
| Feedback_Value | <input checked="" type="checkbox"/> | R | - |
| Event_Enable | <input checked="" type="checkbox"/> | W | - |
| Acked_Transitions | <input checked="" type="checkbox"/> | R | - |
| Notify_Type | <input checked="" type="checkbox"/> | R | - |
| Event_Time_Stamps | <input checked="" type="checkbox"/> | R | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |
| Event_Detection_Enable | <input checked="" type="checkbox"/> | R | - |

¹⁾ Is writable when Out_Of_Service is TRUE

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 | - |

| Properties | Supported | Readable / Writable | Range restrictions |
|---------------------------|-------------------------------------|---------------------|--------------------|
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input checked="" type="checkbox"/> | R ¹⁾ | - |
| Out_Of_Service | <input checked="" type="checkbox"/> | W | - |
| 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 checked="" type="checkbox"/> | W | Only 0 |
| Time_Of_Active_Time_Reset | <input checked="" type="checkbox"/> | R | - |
| Minimum_Off_Time | <input type="checkbox"/> | - | - |
| Minimum_On_Time | <input type="checkbox"/> | - | - |
| Priority_Array | <input checked="" type="checkbox"/> | R | - |
| Relinquish_Default | <input checked="" type="checkbox"/> | W | - |
| Time_Delay | <input type="checkbox"/> | - | - |
| Notification_Class | <input checked="" type="checkbox"/> | R | - |
| Alarm_Value | <input checked="" type="checkbox"/> | W | - |
| Event_Enable | <input checked="" type="checkbox"/> | W | - |
| Acked_Transitions | <input checked="" type="checkbox"/> | R | - |
| Notify_Type | <input checked="" type="checkbox"/> | R | - |
| Event_Time_Stamps | <input checked="" type="checkbox"/> | R | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |
| Event_Detection_Enable | <input checked="" type="checkbox"/> | R | - |

¹⁾ Is writeable when Out_Of_Service is TRUE

Calendar

| 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"/> | R | - |
| Date_List | <input checked="" type="checkbox"/> | W | Max 10 |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |

Device

| 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 | - |
| 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 | 1 |
| Protocol_Revision | <input checked="" type="checkbox"/> | R | 14 |
| 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"/> | W | 50..1476 50..480 |
| Segmentation_Supported | <input checked="" type="checkbox"/> | W | - |
| Max_Segments_Accepted | <input checked="" type="checkbox"/> | W | 2..16 |
| VT_Classes_Supported | <input type="checkbox"/> | - | - |
| Active_VT_Sessions | <input type="checkbox"/> | - | - |
| Local_Time | <input checked="" type="checkbox"/> | R | - |
| Local_Date | <input checked="" type="checkbox"/> | R | - |
| UTC_Offset | <input checked="" type="checkbox"/> | W | - |
| Daylight_Savings_Status | <input checked="" type="checkbox"/> | R | - |
| APDU_Segment_Timeout | <input checked="" type="checkbox"/> | W | 500..65535 |
| APDU_Timeout | <input checked="" type="checkbox"/> | W | 1000..65535 |
| Number_Of_APDU_Retries | <input checked="" type="checkbox"/> | W | - |
| List_Of_Session_Keys | <input type="checkbox"/> | - | - |
| Time_Synchronization_Recipients | <input type="checkbox"/> | - | - |
| Max_Master (only POL904) | <input checked="" type="checkbox"/> | W | 1-127 |
| Max_Info_Frames (only POL904) | <input checked="" type="checkbox"/> | W | 1-32 |
| Device_Address_Binding | <input checked="" type="checkbox"/> | R | - |
| Database_Revision | <input checked="" type="checkbox"/> | R | - |
| Configuration_Files | <input checked="" type="checkbox"/> | R | - |
| Last_Restore_Time | <input checked="" type="checkbox"/> | R | - |

| Properties | Supported | Readable / Writable | Range restrictions |
|-------------------------------------|-------------------------------------|---------------------|--------------------|
| Backup_Failure_Timeout | <input checked="" type="checkbox"/> | W | - |
| 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"/> | - | - |
| Auto_Slave_Discovery | <input type="checkbox"/> | - | - |
| Slave_Address_Binding | <input type="checkbox"/> | - | - |
| Last_Restart_Reason | <input checked="" type="checkbox"/> | R | - |
| Time_Of_Device_Restart | <input checked="" type="checkbox"/> | R | - |
| Restart_Notification_Recipients | <input checked="" type="checkbox"/> | W | - |
| UTC_Time_Synchronization_Recipients | <input type="checkbox"/> | - | - |
| Time_Synchronization_Interval | <input type="checkbox"/> | - | - |
| Align_Intervals | <input type="checkbox"/> | - | - |
| Interval_Offset | <input type="checkbox"/> | - | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |

Event Enrollment

| Properties | Supported | Readable / Writable | Range restrictions |
|---------------------------|-------------------------------------|---------------------|--|
| Object_Identifier | <input checked="" type="checkbox"/> | R | - |
| Object_Name | <input checked="" type="checkbox"/> | W | - |
| Object_Type | <input checked="" type="checkbox"/> | R | - |
| Description | <input type="checkbox"/> | - | - |
| Event_Type | <input checked="" type="checkbox"/> | R | - |
| Notify_Type | <input checked="" type="checkbox"/> | W | - |
| Event_Parameters | <input checked="" type="checkbox"/> | W | Only Change-Of-State Change-Of-Value Out-Of-Range |
| Object_Property_Reference | <input checked="" type="checkbox"/> | W | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Event_Enable | <input checked="" type="checkbox"/> | W | - |
| Acked_Transitions | <input checked="" type="checkbox"/> | R | - |
| Notification_Class | <input checked="" type="checkbox"/> | W | - |
| Event_Time_Stamps | <input checked="" type="checkbox"/> | R | - |
| Profile_Name | <input type="checkbox"/> | - | - |

| Properties | Supported | Readable / Writable | Range restrictions |
|------------------------|-------------------------------------|---------------------|--------------------|
| Property_List | <input checked="" type="checkbox"/> | R | - |
| Event_Detection_Enable | <input checked="" type="checkbox"/> | R | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input checked="" type="checkbox"/> | R | - |

File

| 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 | - |
| File_Type | <input checked="" type="checkbox"/> | R | - |
| File_Size | <input checked="" type="checkbox"/> | R | - |
| Modification_Date | <input checked="" type="checkbox"/> | R | - |
| Archive | <input checked="" type="checkbox"/> | W | - |
| Read_Only | <input checked="" type="checkbox"/> | R | - |
| File_Access_Method | <input checked="" type="checkbox"/> | R | - |
| Record_Count | <input type="checkbox"/> | - | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <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 ¹⁾ | - |
| Description | <input checked="" type="checkbox"/> | R | - |
| Device_Type | <input type="checkbox"/> | - | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input checked="" type="checkbox"/> | R ¹⁾ | - |
| 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 checked="" type="checkbox"/> | R | - |
| Notification_Class | <input checked="" type="checkbox"/> | R | - |
| Alarm_Values | <input checked="" type="checkbox"/> | W | - |
| Fault_Values | <input checked="" type="checkbox"/> | W | - |
| Event_Enable | <input checked="" type="checkbox"/> | W | - |
| Acked_Transitions | <input checked="" type="checkbox"/> | R | - |
| Notify_Type | <input checked="" type="checkbox"/> | R | - |

| Properties | Supported | Readable / Writable | Range restrictions |
|------------------------|-------------------------------------|---------------------|--------------------|
| Event_Time_Stamps | <input checked="" type="checkbox"/> | R | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |
| Event_Detection_Enable | <input checked="" type="checkbox"/> | R | - |

1) Is writeable when Out_Of_Service is TRUE

Multistate 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 type="checkbox"/> | - | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input checked="" type="checkbox"/> | R ¹⁾ | - |
| Out_Of_Service | <input checked="" type="checkbox"/> | W | - |
| Number_Of_States | <input checked="" type="checkbox"/> | R | - |
| State_Text | <input checked="" type="checkbox"/> | R | - |
| Priority_Array | <input checked="" type="checkbox"/> | R | - |
| Relinquish_Default | <input checked="" type="checkbox"/> | W | - |
| Time_Delay | <input checked="" type="checkbox"/> | R | - |
| Notification_Class | <input checked="" type="checkbox"/> | R | - |
| Feedback_Value | <input checked="" type="checkbox"/> | R | - |
| Event_Enable | <input checked="" type="checkbox"/> | W | - |
| Acked_Transitions | <input checked="" type="checkbox"/> | R | - |
| Notify_Type | <input checked="" type="checkbox"/> | R | - |
| Event_Time_Stamps | <input checked="" type="checkbox"/> | R | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |
| Event_Detection_Enable | <input checked="" type="checkbox"/> | R | - |

1) Is writeable when Out_Of_Service is TRUE

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 | - |

| Properties | Supported | Readable / Writable | Range restrictions |
|------------------------|-------------------------------------|---------------------|--------------------|
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input checked="" type="checkbox"/> | R ¹⁾ | - |
| Out_Of_Service | <input checked="" type="checkbox"/> | W | - |
| Number_Of_States | <input checked="" type="checkbox"/> | R | - |
| State_Text | <input checked="" type="checkbox"/> | R | - |
| Priority_Array | <input checked="" type="checkbox"/> | R | - |
| Relinquish_Default | <input checked="" type="checkbox"/> | W | - |
| Time_Delay | <input checked="" type="checkbox"/> | R | - |
| Notification_Class | <input checked="" type="checkbox"/> | R | - |
| Alarm_Values | <input checked="" type="checkbox"/> | W | - |
| Fault_Values | <input checked="" type="checkbox"/> | W | - |
| Event_Enable | <input checked="" type="checkbox"/> | W | - |
| Acked_Transitions | <input checked="" type="checkbox"/> | R | - |
| Notify_Type | <input checked="" type="checkbox"/> | R | - |
| Event_Time_Stamps | <input checked="" type="checkbox"/> | R | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |
| Event_Detection_Enable | <input checked="" type="checkbox"/> | R | - |

¹⁾ Is writable when Out_Of_Service is TRUE

Multistate Value (variant 2)

| 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 ¹⁾ | - |
| Description | <input checked="" type="checkbox"/> | R | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input type="checkbox"/> | - | - |
| Out_Of_Service | <input checked="" type="checkbox"/> | W | - |
| 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"/> | - | - |

| Properties | Supported | Readable / Writable | Range restrictions |
|-------------------|-------------------------------------|---------------------|--------------------|
| Notify_Type | <input type="checkbox"/> | - | - |
| Event_Time_Stamps | <input type="checkbox"/> | - | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |

1) Is writeable when Out_Of_Service is TRUE

Notification Class

| 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 | - |
| Notification_Class | <input checked="" type="checkbox"/> | R | - |
| Priority | <input checked="" type="checkbox"/> | W | - |
| Ack_Required | <input checked="" type="checkbox"/> | W | - |
| Recipient_List | <input checked="" type="checkbox"/> | W | Max. 20 |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |

Schedule

| 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 | Multistate, Analog |
| Description | <input checked="" type="checkbox"/> | R | - |
| Effective_Period | <input checked="" type="checkbox"/> | W | - |
| Weekly_Schedule | <input checked="" type="checkbox"/> | W | Max. 6 per day |
| Exception_Schedule | <input checked="" type="checkbox"/> | W | Only Calendar reference / Entry Max. 6 entries for one list of time Values |
| Schedule_Default | <input checked="" type="checkbox"/> | W | - |
| List_Of_Object_Property_References | <input checked="" type="checkbox"/> | R (W) ¹⁾ | Only One element |
| Priority_For_Writing | <input checked="" type="checkbox"/> | W | 1 ... 16 |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input checked="" type="checkbox"/> | R | - |
| Out_Of_Service | <input checked="" type="checkbox"/> | W | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |
| Event_Detection_Enable | <input checked="" type="checkbox"/> | R | - |

1) Writeable only if configured, max. 1 Element

Trend Log

| 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 | - |
| Enable | <input checked="" type="checkbox"/> | W | - |
| Start_Time | <input checked="" type="checkbox"/> | W | - |
| Stop_Time | <input checked="" type="checkbox"/> | W | - |
| Log_DeviceObjectProperty | <input checked="" type="checkbox"/> | W | - |
| Log_Interval | <input checked="" type="checkbox"/> | W | - |
| COV_Resubscription_Interval | <input type="checkbox"/> | - | - |
| Client_COV_Increment | <input checked="" type="checkbox"/> | W | - |
| Stop_When_Full | <input checked="" type="checkbox"/> | W | - |
| Buffer_Size | <input checked="" type="checkbox"/> | R | - |
| Log_Buffer | <input checked="" type="checkbox"/> | R | - |
| Record_Count | <input checked="" type="checkbox"/> | W | - |
| Total_Record_Count | <input checked="" type="checkbox"/> | R | - |
| Notification_Threshold | <input checked="" type="checkbox"/> | W | - |
| Records_Since_Notification | <input checked="" type="checkbox"/> | R | - |
| Last_Notify_Record | <input checked="" type="checkbox"/> | R | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Notification_Class | <input checked="" type="checkbox"/> | R | - |
| Event_Enable | <input checked="" type="checkbox"/> | W | - |
| Acked_Transitions | <input checked="" type="checkbox"/> | R | - |
| Notify_Type | <input checked="" type="checkbox"/> | R | - |
| Event_Time_Stamps | <input checked="" type="checkbox"/> | R | - |
| Profile_Name | <input type="checkbox"/> | - | - |
| Logging_Type | <input checked="" type="checkbox"/> | W | - |
| Align_Intervals | <input type="checkbox"/> | - | - |
| Interval_Offset | <input type="checkbox"/> | - | - |
| Trigger | <input type="checkbox"/> | - | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |
| Event_Detection_Enable | <input checked="" type="checkbox"/> | R | - |

Accumulator

| 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 ¹⁾ | - |

| Properties | Supported | Readable / Writable | Range restrictions |
|---------------------------|-------------------------------------|---------------------|--------------------|
| Description | <input checked="" type="checkbox"/> | R | - |
| Device_Type | <input type="checkbox"/> | - | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Event_State | <input checked="" type="checkbox"/> | R | - |
| Reliability | <input checked="" type="checkbox"/> | R ¹⁾ | - |
| Out_Of_Service | <input checked="" type="checkbox"/> | W | - |
| Scale | <input checked="" type="checkbox"/> | W | - |
| Units | <input checked="" type="checkbox"/> | R | - |
| Prescale | <input checked="" type="checkbox"/> | R | - |
| Max_Pres_Value | <input checked="" type="checkbox"/> | R | - |
| Value_Change_Time | <input checked="" type="checkbox"/> | R | - |
| Value_Before_Change | <input checked="" type="checkbox"/> | R | - |
| Value_Set | <input checked="" type="checkbox"/> | W | - |
| Logging_Record | <input type="checkbox"/> | - | - |
| Logging_Object | <input type="checkbox"/> | - | - |
| Pulse_Rate | <input type="checkbox"/> | - | - |
| High_Limit | <input type="checkbox"/> | - | - |
| Low_Limit | <input type="checkbox"/> | - | - |
| Limit_Monitoring_Interval | <input type="checkbox"/> | - | - |
| Notification_Class | <input type="checkbox"/> | - | - |
| Time_Delay | <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 type="checkbox"/> | - | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |

¹⁾ Is writeable when Out_Of_Service is TRUE

CharacterString 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"/> | R ¹⁾ | - |
| Out_Of_Service | <input type="checkbox"/> | - | - |
| Description | <input checked="" type="checkbox"/> | R | - |
| Device_Type | <input type="checkbox"/> | - | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |

¹⁾ Is writeable when Out_Of_Service is TRUE

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 | - |
| Present_Value | <input checked="" type="checkbox"/> | R ¹⁾ | - |
| Out_Of_Service | <input type="checkbox"/> | - | - |
| Description | <input checked="" type="checkbox"/> | R | - |
| Units | <input checked="" type="checkbox"/> | R | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| COV_Increment | <input checked="" type="checkbox"/> | R | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |

¹⁾ Is writeable when Out_Of_Service is TRUE

Date Time Pattern 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 | - |
| Device_Type | <input type="checkbox"/> | - | - |
| Status_Flags | <input checked="" type="checkbox"/> | R | - |
| Property_List | <input checked="" type="checkbox"/> | R | - |

2.8 Segmentation capability

| | | | |
|-------------------------------------|-------------------------------------|-------------|-----------------------|
| <input checked="" type="checkbox"/> | Able to transmit segmented messages | Window size | 4 for IP, 1 for MS/TP |
| <input checked="" type="checkbox"/> | Able to receive segmented messages | Window size | 4 for IP, 1 for MS/TP |

2.9 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 checked="" 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 checked="" type="checkbox"/> | MS/TP slave (Clause 9), baud rate(s) | 9600 19200 38400 57600 76800 115200 |
| <input type="checkbox"/> | Point-To-Point, EIA 232 (Clause 10), baud rate(s) | 38400 |
| <input type="checkbox"/> | Point-To-Point, modem, (Clause 10), baud rate(s) | 38400 |
| <input type="checkbox"/> | LonTalk, (Clause 11), medium | TP/FT-10 |
| <input type="checkbox"/> | Other | - |

2.10 Device address binding

| | | |
|-------------------------------------|------------------------------|--|
| Is static device binding supported? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
|-------------------------------------|------------------------------|--|

2.11 Networking options

| | | | |
|-------------------------------------|--|---|-----------------------------|
| <input type="checkbox"/> | Router, Clause 6 (remote management functionality/BACnet PTP) | | |
| <input type="checkbox"/> | Annex H, BACnet Tunneling Router over IP | | |
| <input checked="" type="checkbox"/> | BACnet/IP Broadcast Management Device (BBMD) Number of BDT entries: 10 Number of FDT entries: 10 | | |
| - | Does the BBMD support registrations by foreign devices? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

2.12 Character sets supported

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

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

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