



# PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (PICS)

## ANNEX A - PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (NORMATIVE)

(This annex is part of this standard and is required for its use.)

### BACnet Protocol Implementation Conformance Statement

**Date:** 1/6/2025

**Vendor Name:** Fellowes

**Vendor ID:** 1532

**Product Name:** Array Air Purifiers and Air Monitors

**Product Model Number:** Array Air Purifiers and  
Air Monitors

**Firmware Revision:** 1.0.0

**BACnet Protocol Revision:** 24

**Product Description:** Array Air Purifiers and  
Air Monitors

### BACnet Standardized Device Profiles Supported (Annex L):

- ☐ BACnet Cross-Domain Advanced Operator Workstation (B-XAWS)
- ☐ BACnet Advanced Operator Workstation (B-AWS)
- ☐ BACnet Operator Workstation (B-OWS)
- ☐ BACnet Operator Display (B-OD)
- ☐ BACnet Advanced Lighting Workstations (B-ALWS)
- ☐ BACnet Lighting Operator Display (B-LOD)
- ☐ BACnet Advanced Life Safety Workstation (B-ALSWS)
- ☐ BACnet Life Safety Workstation (B-LSWS)
- ☐ BACnet Life Safety Annunciator Panel (B-LSAP)
- ☐ BACnet Advanced Access Control Workstation (B-AACWS)
- ☐ BACnet Access Control Workstation (B-ACWS)
- ☐ BACnet Access Control Security Display (B-ACSD)
- ☐ BACnet Advanced Elevator Workstation (B-AEWS)
- ☐ BACnet Elevator Workstation (B-EWS)
- ☐ BACnet Elevator Display (B-ED)
- ☐ BACnet Advanced Lighting Control Station (B-ALCS)
- ☐ BACnet Lighting Control Station (B-LCS)
- ☐ BACnet Building Controller (B-BC)
- ☐ BACnet Advanced Application Controller (B-AAC)
- ☒ **BACnet Application Specific Controller (B-ASC)**
- ☐ BACnet Smart Actuator (B-SA)
- ☐ BACnet Smart Sensor (B-SS)

- ☐ BACnet Lighting Supervisor (B-LS)
- ☐ BACnet Lighting Device (B-LD)
- ☐ BACnet Advanced Life Safety Controller (B-ALSC)
- ☐ BACnet Life Safety Controller (B-LSC)
- ☐ BACnet Advanced Access Control Controller (B-AACC)
- ☐ BACnet Access Control Controller (B-ACC)
- ☐ BACnet Advanced Elevator Controller (B-AEC)
- ☐ BACnet Elevator Controller (B-EC)
- ☐ BACnet Elevator Monitor (B-EM)
- ☐ BACnet Router (B-RTR)
- ☐ BACnet Gateway (B-GW)
- ☐ BACnet Broadcast Management Device (B-BBMD)
- ☐ BACnet Access Control Door Controller (B-ACDC)
- ☐ BACnet Access Control Credential Reader (B-ACCR)
- ☐ BACnet Secure Connect Hub (B-SCHUB)
- ☐ BACnet General (B-GENERAL)

**BACnet Interoperability Building Blocks Supported (Annex K):**

DS-RP-B, DS-RPM-B, DS-WP-B, DS-WPM-B, DM-DDB-B, DM-DOB-B

**Segmentation Capability:**

- ☐ Able to transmit segmented messages      Window Size \_\_\_\_\_
- ☐ Able to receive segmented messages      Window Size \_\_\_\_\_

**Standard Object Types Supported:** An Object Type is supported if it may be present in the device. For each standard Object Type supported provide the following data:

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

Object Type	ID	Object Name	Description	Range
Multistate Input	0	Connectivity State	Air Purifiers and Signal	0 = Disconnected, 1 = Connected
Multistate Input	1	Fan Mode	Air Purifiers	0 = Off, 1 = Auto, 2 = Manual, 3 = Quiet
Command	2	Change Fan Mode	Air Purifiers	0 = Off, 1 = Auto, 2 = Manual, 3 = Quiet
Multistate Input	3	Fan Speed	Air Purifiers	1 = Fan Speed 1, 2 = Fan Speed 2, 3 = Fan Speed 3, 4 = Fan Speed 4, 5 = Fan Speed 5
Command	4	Change Fan Speed	Air Purifiers	1 = Fan Speed 1, 2 = Fan Speed 2, 3 = Fan Speed 3, 4 = Fan Speed 4, 5 = Fan Speed 5
Multistate Input	5	AQI Lights Mode	Air Purifiers and Signal	0 = Off, 1 = Auto, 2 = Manual
Analog Input	6	AQI Lights Dimming Percentage Status	Air Purifiers and Signal	0-100%
Command	7	AQI Lights Dimming Percentage	Air Purifiers and Signal	0-100%
Command	8	Reset Filter Life	Air Purifiers	1 = Yes
Analog Input	9	Filter Life	Air Purifiers	0-100% (Remaining life)
Binary Input	10	Occupancy	Air Purifiers and Signal (Does not apply to AR1 UVC)	0 = Unoccupied, 1 = Occupied
Analog Input	11	AQI	Air Purifiers and Signal (Does not apply to AR1 UVC)	0-100%
Analog Input	12	CO2	Air Purifiers and Signal (Does not apply to AR1 UVC)	0-5000ppm
Analog Input	13	Relative Humidity	Air Purifiers and Signal (Does not apply to AR1 UVC)	0-100%
Analog Input	14	PM 1	Air Purifiers and Signal (Does not apply to AR1 UVC)	0-1000 $\mu\text{g}/\text{m}^3$
Analog Input	15	PM 2.5	Air Purifiers and Signal (Does not apply to AR1 UVC)	0-1000 $\mu\text{g}/\text{m}^3$
Analog Input	16	PM 10	Air Purifiers and Signal (Does not apply to AR1 UVC)	0-1000 $\mu\text{g}/\text{m}^3$
Analog Input	17	Air Pressure	Air Purifiers and Signal (Does not apply to AR1 UVC)	30-110kPA
Analog Input	18	Temperature	Air Purifiers and Signal (Does not apply to AR1 UVC)	-40°C - 125°C
Analog Input	19	VOC	Air Purifiers and Signal (Does not apply to AR1 UVC)	0-500 VOC index points
CharacterString Value	20	Building	Air Purifiers and Signal	Text string indicating building name or ID
CharacterString Value	21	Floor	Air Purifiers and Signal	Text string indicating floor name or number
CharacterString Value	22	Area	Air Purifiers and Signal	Text string indicating zone or area name
Multistate Input	23	Service Unit	Air Purifiers and Signal	1 = Yes
Multistate Input	24	Door Status	Air Purifiers	1 = Open
Multistate Input	25	Missing Filter	Air Purifiers	1 = Yes
Multistate Input	26	Low Filter	Air Purifiers	1 = Yes
Multistate Input	27	Replace Filter	Air Purifiers	1 = Yes

**Dynamically Creatable:**

No

**Dynamically Deletable:**

No

**Writable Properties:**

- Temperature
  - Units
- Device
  - Location
  - Description
  - Local Time
  - Local Date

### Optional Properties Supported:

Description

### BACnet Data Link Layer Options:

- ☐ ARCNET (ATA 878.1), 2.5 Mb. (Clause 8)
- ☐ ARCNET (ATA 878.1), EIA-485 (Clause 8), baud rate(s) \_\_\_\_\_
- ☒ **BACnet IP, (Annex J)**

- ☐ BACnet IP, (Annex J), BACnet Broadcast Management Device (BBMD)
- ☐ BACnet IP, (Annex J), Network Address Translation (NAT Traversal)
- ☐ BACnet IPv6, (Annex U)
- ☐ BACnet IPv6, (Annex U), BACnet Broadcast Management Device (BBMD)
- ☐ BACnet/ZigBee (Annex O) \_\_\_\_\_
- ☐ Ethernet, ISO 8802-3 (Clause 7)
- ☐ LonTalk, ISO/IEC 14908.1 (Clause 11), medium: \_\_\_\_\_
- ☐ MS/TP master (Clause 9)
  - ☐ Master ☐ Slaver ☐ Non-isolated transceiver ☐ Isolated transceiver
  - ☐ Local 47K ohms bias resistors ☐ None ☐ Other: \_\_\_\_\_
  - ☐ Transceiver unit loading: ☐ 1 ☐ 1/2 ☐ 1/4 ☐ 1/8
  - Data rates: ☐ 9600 ☐ 19200 ☐ 38400 ☐ 57600 ☐ 76800 ☐ 115200
- ☐ Point-To-Point, EIA 232 (Clause 10), baud rate(s):
- ☐ Point-To-Point, modem, (Clause 10), baud rate(s):
- ☐ BACnet Secure Connect (Annex AB)
  - ☐ BACnet Secure Connect Node
    - If direct connections are supported:
      - Maximum number of simultaneous direct connections initiated:
      - Maximum number of simultaneous direct connections accepted:
  - ☐ BACnet Secure Connect Hub Function
    - Maximum number of simultaneous hub connections accepted:
  - ☐ HTTPS Proxy Support
    - List the types of HTTPS proxies supported:
  - ☐ Additional cipher suites supported beyond those required for TLS V1.3
    - The additional cipher suites supported using the cipher suite names as of the TLS Cipher Suite Registry at IANA (See RFC 8446):
  - ☐ Additional Transport Layer Security versions other than V1.3 supported
    - The TLS versions other than V1.3 that are supported, including the supported cipher suites for the version beyond those required, using the cipher suite names as defined by the TLS version supported:
  - ☐ Generates private keys internally, and provides matching certificate signing requests.
  - ☐ DNS host name resolution supported (RFC 1123)
  - ☐ mDNS host name resolution supported (RFC 6762)
  - ☐ Other:

**Device Address Binding:** Is static device binding supported?

(This is currently necessary for two-way communication with MS/TP slaves and certain other devices.)

☐ Yes ☒ No

#### Networking Options:

- ☐ Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
- ☐ Annex H, BACnet Tunneling Router over IP

#### Gateway Options:

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