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: 1/28/2026
Vendor Name: UV Partners, Inc.
Product Name: UV Angel Clean Air Active™
Product Model Number: 102-2200-01-00-30
Application Software Version: 1.26.007.18.55.B1.S
Firmware Revision: 4.5.5.0
BACnet Protocol Revision: 22

Product Description:
Active upper in-room Germicidal Ultraviolet (GUV) air treatment device.

BACnet Standardized Device Profiles Supported (Annex L):

☑ BACnet Smart Actuator (B-SA)

BACnet Interoperability Building Blocks Supported (Annex K):

- DS-RP-B
- DS-RPM-B
- DS-WP-B
- DS-COV-B
- DS-COVP-B
- DM-RD-B
- DM-DOB-B
- DM-DDB-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 CreateObject service
Analog Inputs - no
Analog Outputs - no
Binary Inputs - no
Binary Outputs – no
Binary Values - no

2) Whether objects of this type are dynamically deletable using the DeleteObject service
Analog Inputs - no
Analog Outputs - no
Binary Inputs - no
Binary Outputs - no
Binary Values - no

3) List of the optional properties supported
Analog Inputs - Description, Reliability, Minimum Present Value, Maximum Present Value, COV Increment
Analog Outputs - Description, Reliability, Minimum Present Value, Maximum Present Value, COV Increment
Binary Inputs – Description, Active Text, Inactive Text
Binary Values – Description, Active Text, Inactive Text

4) List of all properties that are writable where not otherwise required by this standard
Device Object – Object Name, Device ID
Network Object – Bacnet IP Mode (Normal – 0, Foreign – 1), FD BBMD Address, FD Subscription Lifetime, IP DHCP Enabled
Analog Inputs - COV Increment

5) List of all properties that are conditionally writable where not otherwise required by this standard
Network Object – Based on IP-DHCP-Enable:false - Static IP Address, Static IP DNS, Static IP Gateway

6) List of proprietary properties and for each its property identifier, datatype, and meaning

- Analog Inputs
  - AI:0 - UV Bulb Remaining Life (%)
    - Describes the percentage of Remaining UV Bulb life. This percentage will reset when bulbs/filters are replaced as a part of scheduled maintenance. When bulb reaches end of life, device will require a bulb/filter replacement. Lamp EOL status will be set in this condition.
  - AI:1 - Air Filter Remaining Life (%)
    - Describes the percentage of Remaining Filter life. This percentage will reset when bulbs/filters are replaced as a part of scheduled maintenance. When bulb reaches end of life, device will require a bulb/filter replacement. Filter EOL status will be set in this condition.
  - AI:2 - Lifetime Treatment Duration (Seconds)
    - Total cumulative seconds of UV Disinfection time across all bulbs and filters
  - AI:3 - Boot Count (#)
    - Number of times the device has been rebooted. Useful for troubleshooting or recognizing success of the 'Reboot Request' operation
  - AI:4 - Sensor Value (TEMP)
    - Currently reported sensor value (in degrees C)
  - AI:5 - Sensor Value (HUMIDITY)
    - Currently reported sensor value (in %)
  - AI:6 - Sensor Value (CO2)
    - Currently reported sensor value (in ppm)
  - AI:7 - Sensor Value (VOC)
    - Currently reported sensor value (in ppm)
  - AI:8 - Sensor Value (IAQ)
    - Currently reported sensor value (in iaq score)
  - AI:9 - Reported Treatment Mode
    - Reported treatment mode of the device. 0 = Standby, 1-5 = static speeds, -1 = Error
- Analog Outputs
  - AO:10 - Downlight Brightness (%)
    - Current downlight brightness percentage. IF no downlight on unit, ignore this value
  - AO:11 - Desired Treatment Mode
    - Desired treatment mode of the device. 0 = Standby, 1-5 = static speeds
- Binary Inputs
  - BI:12 - UV Treatment Status
    - Current status of UV Treatment. If active, bulb and filters are on and operational.
  - BI: 13 – Door Open
    - Error indicating if maintenance door is open. 0 = closed, 1 = open.
  - BI:14 - Lamp Error
    - Error indicator, lamp needs troubleshooting.

    - BI: 15 – Door Fault
        - Door Fault. 0 = No Fault, 1 = Fault
    - BI:16 - Fan Error
        - Error indicator, fans need troubleshooting.
    - BI:17 - Filter EOL
        - End of Life indicator, Filters need replacement.
    - BI:18 – Lamp EOL
        - End of Life indicator, Lamp need replacement.
- Binary Values
    - BO:19 - BACnet Enabled
        - Control value. Use this value to request whether device should be in bacnet mode or cloud connected mode. When set to false, device will reboot into cloud connection mode until it is instructed to return to bacnet mode.

7) List of any property range restrictions

Analog Inputs -

UV Bulb Remaining Life (%) - [0-100]
Air Filter Remaining Life (%) - [0-100]
Sensor - Temperature (Celsius) - [10-50]
Sensor - Humidity (%) - [10-95]
Sensor - CO2 (ppm) - [0-10000]
Sensor - VOC (ppm) - [0-1000]
Sensor - IAQ (iaq) - [0-500]
Reported Treatment Mode - [-1 - 5]

Analog Outputs -

Downlight Brightness - [0-100]
Desired Treatment Mode - [0-5]

BACnet Data Link Layer Options:

☑ BACnet IP, (Annex J)

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

Character Sets Supported:

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

☑ ISO 10646 (UTF-8)	☐ IBM™/Microsoft™ DBCS	☐ ISO 8859-1
☐ ISO 10646 (UCS-2)	☐ ISO 10646 (UCS-4)	☐ JIS X 0208

Gateway Options: N/A