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BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

RTX-D

Produal

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BACnet protocol implementation conformance statement

Date	02.02.2026
Vendor name	Produal Oy (Vendor ID: 783)
Product name	Room Transmitter
Product model number	RTX-D
Application software version	2.1.9.7
Firmware version	2.1.9.7
Product description	HVAC transmitter / controller
BACnet protocol revision	23

BACnet standardized device profile (Annex L)

BACnet Application Specific Controller (B-ASC)

Supported BACnet interoperability building blocks (Annex K)

- Data Sharing-ReadProperty (DS-RP-B)
- Data Sharing-WriteProperty (DS-WP-B)
- Data Sharing-ReadPropertyMultiple (DS-RPM-B)
- Data Sharing-WritePropertyMultiple (DS-WPM-B)
- Data Sharing-ChangeOfValue (DS-COV-B)
- Device Management-DynamicDeviceBindings (DM-DDB-B)
- Device Management-DynamicObjectBinding (DM-DOB-B)
- Device Management-DeviceCommunicationControl (DM-DCC-B)

Segmentation capability

- Segmentation requests are not supported.
- Segmentation responses are not supported.

Supported standard object types

Device object

Dynamically creatable using the CreateObject service?

- No

Dynamically deletable using the DeleteObject service?

- No

Supported optional properties

- Object name
- Object identifier

Writable properties that are not otherwise required by the standard

- N/A

Conditionally writable properties that are not otherwise required by the standard

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- N/A

Proprietary properties

- N/A

Property value range restrictions

- N/A

Binary input object

Dynamically creatable using the CreateObject service?

- No

Dynamically deletable using the DeleteObject service?

- No

Supported optional properties

- Out_Of_Service

Writable properties that are not otherwise required by the standard

- N/A

Conditionally writable properties that are not otherwise required by the standard

- N/A

Proprietary properties

- N/A

Property value range restrictions

- N/A

Binary value object

Dynamically creatable using the CreateObject service?

- No

Dynamically deletable using the DeleteObject service?

- No

Supported optional properties

- Out_Of_Service

Writable properties that are not otherwise required by the standard

- N/A

Conditionally writable properties that are not otherwise required by the standard

- N/A

Proprietary properties

- N/A

Property value range restrictions

- N/A

Analog input object

Dynamically creatable using the CreateObject service?

- No

Dynamically deletable using the DeleteObject service?

- No

Supported optional properties

- Out_Of_Service
- COV_Increment

Writable properties that are not otherwise required by the standard

- N/A

Conditionally writable properties that are not otherwise required by the standard

- N/A

Proprietary properties

- N/A

Property value range restrictions

Present_value:

ID	Object name	Values	Resolution	Units
0	*TEMPERATURE*	*-1000...1000*	*0.1*	*degrees-celsius (62) / degrees-fahrenheit (64)*
1	*HUMIDITY*	*0...100*	*1.0*	*percent-relative-humidity (29)*
2	*CO2*	*0...10000*	*1.0*	*parts-per-million (96)*
3	*TVOC*	*0...10000*	*1.0*	*micrograms-per-cubic-meter (219)*
5	*EXTERNAL-INPUT-1-VOLTAGE*	*0...10*	*0.001*	*volts (5)*
6	*EXTERNAL-INPUT-1-RESISTANCE*	*0...30000*	*0.1*	*ohms (4)*
8	*EXTERNAL-INPUT-1-TEMPERATURE*	*-1000...1000*	*0.1*	*degrees-celsius (62) / degrees-fahrenheit (64)*
9	*EXTERNAL-INPUT-1-HUMIDITY*	*0...100*	*1.0*	*percent-relative-humidity (29)*
10	*EXTERNAL-INPUT-1-CO2*	*0...10000*	*1.0*	*parts-per-million (96)*
11	*EXTERNAL-INPUT-1-VOC*	*0...10000*	*1.0*	*micrograms-per-cubic-meter (219)*
85	*EXTERNAL-INPUT-2-RESISTANCE*	*0...30000*	*0.1*	*ohms (4)*
86	*EXTERNAL-INPUT-2-TEMPERATURE*	*-1000...1000*	*0.1*	*degrees-celsius (62) / degrees-fahrenheit (64)*

Analog value object

Dynamically creatable using the CreateObject service?

- No

Dynamically deletable using the DeleteObject service?

- No

Supported optional properties

- Out_Of_Service
- COV_Increment

Writable properties that are not otherwise required by the standard

- N/A

Conditionally writable properties that are not otherwise required by the standard

- N/A

Proprietary properties

- N/A

Property value range restrictions

Present_value:

ID	Object name	Values	Reso-lution	Units	Default
13	OUTPUT1-VOLTAGE	0...10	0.001	volts (5)	0
14	OUTPUT2-VOLTAGE	0...10	0.001	volts (5)	0
15	OUTPUT3-VOLTAGE	0...10	0.001	volts (5)	0
16	OUTPUT4-VOLTAGE	0...10	0.001	volts (5)	0
17	AVERAGE TEMPERATURE	-1000...1000	0.1	degrees-celsius (62) / degrees-fahrenheit (64)	0
18	DEW-POINT	-1000...1000	0.1	degrees-celsius (62) / degrees-fahrenheit (64)	0
21	ABSOLUTE-HUMIDITY	0...100	1.0	grams-per-cubic-meter (217)	0
22	MIXING-RATIO	0...100	0.1	grams-per-kilogram (210)	0
23	ENTHALPY	0...1000	0.1	kilojoules-per-kilogram (125)	0
24	VOC-TVOC-PPB	0...10000	1.0	parts-per-billion (97)	0
25	VOC-CO2-EQV-PPM	0...10000	1.0	parts-per-million (96)	0
26	VOC-AQI	1...5	1.0	no-units (95)	0
28	EXTERNAL-INPUT-1-PULSE-COUNTER	0...4294967295	1.0	no-units (95)	0
36	INSTALLATION-QUALITY-SCORE	1...4	1.0	no-units (95)	0
73	COMBINED-VOC-CO2	0...10000	1.0	parts-per-million (96)	0
88	AMBIENT-LIGHT-SENSOR-VALUE	0...65535	1.0	luxes (37)	0
89	EXTERNAL-INPUT-2-PULSE-COUNTER	0...4294967295	1.0	no-units (95)	0
115	FORCE-VENTILATION-TIMER-VALUE	0...65535	1.0	minutes (72)	0

ID	Object name	Values	Reso-lution	Units	Default
206	CONFIGURABLE-BUTTON-1-TIMER	0…65535	1.0	seconds (73)	0
207	CONFIGURABLE-BUTTON-2-TIMER	0…65535	1.0	seconds (73)	0
208	CONFIGURABLE-BUTTON-3-TIMER	0…65535	1.0	seconds (73)	0
209	CONFIGURABLE-BUTTON-4-TIMER	0…65535	1.0	seconds (73)	0
210	CONFIGURABLE-BUTTON-5-TIMER	0…65535	1.0	seconds (73)	0
211	CONFIGURABLE-BUTTON-6-TIMER	0…65535	1.0	seconds (73)	0
1000	BUS-TEMPORARY-OVERDRIVE-TIMER	0...1440	1.0	minutes (72)	0
1001	BUS-TEMPORARY-OVERDRIVE-SELECTION	0...65535	1.0	no-units (95)	0
1002	BUS-EXTERNAL-INPUT-1-POWER	0...100	0.01	percent (98)	0
1003	BUS-CONTROLLER-INPUT-T	-1000...1000	0.1	degrees-celsius (62) / degrees-fahrenheit (64)	0
1004	BUS-CONTROLLER-INPUT-RH	0...100	0.01	percent-relative-humidity (29)	0
1005	BUS-CONTROLLER-INPUT-CO2	0...10000	1.0	parts-per-million (96)	0
1006	BUS-CONTROLLER-INPUT-CO2-VOC	0...10000	1.0	micrograms-per-cubic-meter (219)	0
1007	BUS-CONTROLLER-SETPOINT-T	-1000...1000	0.1	degrees-celsius (62) / degrees-fahrenheit (64)	0
1008	BUS-CONTROLLER-SETPOINT-RH	0...100	0.01	percent-relative-humidity (29)	0
1009	BUS-CONTROLLER-SETPOINT-CO2	0...10000	1.0	parts-per-million (96)	0
1010	BUS-CONTROLLER-SETPOINT-VOC	0...10000	1.0	micrograms-per-cubic-meter (219)	0
1012	BUS-OUTPUT1-POWER	0...100	0.01	percent (98)	0
1013	BUS-OUTPUT2-POWER	0...100	0.01	percent (98)	0
1014	BUS-OUTPUT3-POWER	0...100	0.01	percent (98)	0
1015	BUS-OUTPUT4-POWER	0...100	0.01	percent (98)	0
1035	BUS-EXTERNAL-INPUT-2-POWER	0...100	0.01	percent (98)	0
19100	OUTDOOR-TEMPERATURE-BUS-VALUE	-1000...1000	0.1	degrees-celsius (62) / degrees-fahrenheit (64)	0
19200	SETPOINT-TEMPERATURE	-1000...1000	0.1	degrees-celsius (62) / degrees-fahrenheit (64)	0
19201	SETPOINT-RH	0...100	0.01	percent-relative-humidity (29)	0

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ID	Object name	Values	Reso-lution	Units	Default
19202	*SETPOINT-CO2*	*0...10000*	*1.0*	*parts-per-million (96)*	*0*
19203	*SETPOINT-VOC*	*0...32767*	*1.0*	*micrograms-per-cubic-meter (219)*	*0*
19800	*CONFIGURABLE-BUTTON-1-STATE*	*0...5*	*1.0*	*no-units (95)*	*0*
19801	*CONFIGURABLE-BUTTON-2-STATE*	*0...5*	*1.0*	*no-units (95)*	*0*
19802	*CONFIGURABLE-BUTTON-3-STATE*	*0...5*	*1.0*	*no-units (95)*	*0*
19803	*CONFIGURABLE-BUTTON-4-STATE*	*0...5*	*1.0*	*no-units (95)*	*0*
19804	*CONFIGURABLE-BUTTON-5-STATE*	*0...5*	*1.0*	*no-units (95)*	*0*
19805	*CONFIGURABLE-BUTTON-6-STATE*	*0...5*	*1.0*	*no-units (95)*	*0*

Multi state value object

Dynamically creatable using the CreateObject service?

- No

Dynamically deletable using the DeleteObject service?

- No

Supported optional properties

- Out_Of_Service
- State_Text

Writable properties that are not otherwise required by the standard

- N/A

Conditionally writable properties that are not otherwise required by the standard

- N/A

Proprietary properties

- N/A

Property value range restrictions

Present_value:

ID	Object name	Values	State text	Default
72	*VOC-DETAILED-STATUS*	*1...4*	1. Operating normally 2. Warm-up sequence 3. Initial start-up 4. No valid output	*1*

ID	Object name	Values	State text	Default
1017	*BUS-LED-COLOR*	*1...8*	1. Off 2. Red 3. Green 4. Blue 5. Yellow 6. Cyan 7. Purple 8. White	*1*

Network port object

Dynamically creatable using the CreateObject service?

- No

Dynamically deletable using the DeleteObject service?

- No

Supported optional properties

- N/A

Writable properties that are not otherwise required by the standard

- N/A

Conditionally writable properties that are not otherwise required by the standard

- N/A

Proprietary properties

- N/A

Data link layer options

- MS/TP master (Clause 9), baud rates: 9600/14400/19200/38400/57600/76800/115200 bps

Device address binding

Is static device binding supported?

- No

Networking options

- N/A

Character sets supported

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

- ISO 10646 (UTF-8)

Network security options

- Non-secure device - is capable of operating without BACnet Network security.

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