

BACnet Protocol Implementation Conformance Statement (PICS)

Date: May 6, 2021

Vendor Name: Brasch Environmental Technologies, LLC

Product Name: Control Panel

Product Model Number: GDCCP-Touch

Application Software Version: 1.0 **Firmware Revision:** 1.0 **BACnet Protocol Revision:** 12

Product Description:

Fixed, industrial gas detector control panel with touch screen for actuating HVAC equipment in parking garages, repair shops, warehouses, maintenance depots, loading docks, and more. Communicates with BMS via BACnet IP and Modbus RTU. Supports up to 30 CO and/or NO₂ remote sensors. Supports up to 128 remote sensors via GDCCP-ExpansionPacks.

BACnet Standardized Device Profile (Annex L):

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

List all BACnet Interoperability Building Blocks Supported (Annex K):

- DS-RP-B
- DS-RPM-B
- DS-WP-B
- DS-COV-A
- DS-COV-B
- DM-DDB-B
- DM-DOB-B
- DM-DCC-B
- DM-RD-B
- DM-UTC-B

Segmentation Capability:

- Able to transmit segmented messages Window Size _____
- Able to receive segmented messages Window Size _____

Standard Object Types Supported:

Property	Object Type					
	Device	Binary Output	Binary Value	Analog Input	Analog Output	Analog Value
Object Identifier	R	R	R	R	R	R
Object Name	R	R	R	R	R	R
Object Type	R	R	R	R	R	R
System Status	R					
Vendor Name	R					
Vendor Identifier	R					
Model Name	R					
Firmware Revision	R					
Application Software Version	R					
Protocol Version	R					
Protocol Revision	R					
Protocol Services Supported	R					
Protocol Object Type Supported	R					
Object List	R					
Max APDU Length Accepted	R					
Segmentation Supported	R					
APDU Timeout	R					
Number of APDU Retries	R					
Max Master						
Max Info Frames						
Device Address						

Binding						
Database Revision	R					
Active COV Subscriptions						
Present Value		R	R	R	R	R
Status Flags		R	R	R	R	R
Event State		R	R	R	R	R
Reliability		R		R	R	
Out of Service		R	R	R	R	R
Number of States						
Units				R	R	R
Priority Array		R	R		R	
Relinquish Default		R	R		R	
COV Increment						
Polarity		R				
Active Text		R				
Inactive Text		R				
Description		R	R	R		R
Reliability Evaluation inhibit		R		R	R	
Device Type				R		
Resolution				R	R	R
Max Pres Value					R	
Min Pres Value					R	

R – Readable
W – Writable

Data Link Layer Options:

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ATA 878.1, EIA-485 ARCNET (Clause 8), baud rate(s) _____
- MS/TP master (Clause 9), baud rate(s): _____
- MS/TP slave (Clause 9), baud rate(s): _____
- Point-To-Point, EIA 232 (Clause 10), baud rate(s): _____
- Point-To-Point, modem, (Clause 10), baud rate(s): _____
- LonTalk, (Clause 11), medium: _____
- BACnet/ZigBee (ANNEX O)
- 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
- BACnet/IP Broadcast Management Device (BBMD)
 - Does the BBMD support registrations by Foreign Devices? Yes No
 - Does the BBMD support network address translation? Yes No

Network Security Options:

- Non-secure Device - is capable of operating without BACnet Network Security
- Secure Device - is capable of using BACnet Network Security (NS-SD BIBB)
 - Multiple Application-Specific Keys:
 - Supports encryption (NS-ED BIBB)
 - Key Server (NS-KS BIBB)

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

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