IAQPoint2
BACnet PICS

Revision History

Rev.	Date	Author	Description
1	March 16, 2011	Mike Grady	Initial draft
2	March 23, 2011	Danish I	Modified the initial draft. Added tables for supported objects, object properties and object list. Incorporated the changes approved during the telecom on March 18th.
3	April 04, 2011	Danish I	Updated the PICS with object list and related information.
4	April 06, 2011	Danish I	Modified based upon the discussion with David Fisher from Polarsoft
5	April 08, 2011	Danish I	Reviewed and approved version in a discussion with Mike Grady, Kishore V, Amit. Updated the device profile to Smart Sensor after approval from Don Olson from Marketing.
6	April 14, 2011	Danish I	Removed Reliability property for Binary Outputs. Approved version after joint review between Marketing and Engineering.
7	May 22, 2012	Mike Grady	Corrections for Technical Manual
8	May 24, 2012	Danish I	Reviewed and Corrections Incorporated
9	Dec 18, 2012	Mike Grady	Reflect implementation as tested by BTL

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: 2012 Dec 12
Vendor Name: Honeywell International Inc
Product Name: IAQPoint2
Product Model Number: Sixteen variations of the product are offered:
IAQ-WNC-D, IAQ-WNC-R-D, IAQ-WNC-TRH-D, IAQ-WNC-TRH-R-D,
IAQ-WNV-D, IAQ-WNV-R-D, IAQ-WNV-TRH-D, IAQ-WNV-TRH-R-D,
IAQ-DNC-D, IAQ-DNC-R-D, IAQ-DNC-TRH-D IAQ-DNC-TRH-R-D,
IAQ-DNV-D, IAQ-DNV-R-D, IAQ-DNV-TRH-D, IAQ-DNV-TRH-R-D

Application Software Version: v1.05b4 **Firmware Revision:** v1.05b4 **BACnet Protocol Revision:** 7

Product Description: The IAQPoint2 smart sensor measures three indoor air quality parameters: carbon dioxide or volatile organic compounds, plus temperature and humidity. Both wall mount and duct mount versions are available with a customizable touchscreen. The IAQPoint2 facilitates energy efficiency, productivity, health and comfort by facilitating demand controlled ventilation.

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):

BIBB	Service
DS-RP-B	Data Sharing - ReadProperty-B
DS-RPM-B	Data Sharing - Read Property Multiple-B
DS-WP-B	Data Sharing - Write Property-B
DM-DDB-B	Dynamic Device Binding
DM-DOB-B	Dynamic Object Binding

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
2) Whether objects of this type are dynamically deletable using the DeleteObject 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 proprietary properties and for each its property identifier, datatype, and meaning
6) List of any property range restrictions

Object	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable beyond standard	Range Restrictions
device	N	N			
			description	description	1 - 50 characters, default "CO2 or VOC Sensor"
			location	location	1 - 22 characters, default "location"
			max_master	max_master	1 to 127, default 127
			max_info_frames		
analog_input 0	N	N			
			reliability		
				present_value	if CO2 sensor fitted 0 to 5000 ppm, else 0 to 100 %
				out_of_service	
				object_name	1 - 22 characters, default "GAS_RDG_AI"
analog_input 1	N	N			
			reliability		
				present_value	0 to 50 C or 32 to 122 F
				out_of_service	
				object_name	1 - 22 characters, default "TEMP_AI"
				units	Fahrenheit (64) or Celcisus (62)
analog_input 2	N	N			
			reliability		
				present_value	0 to 100%

				out_of_service	
				object_name	1 - 22 characters, default "RH_AI"
analog_value 3	N	N			
			reliability		
				present_value	if CO2 sensor fitted 400 to 5000 ppm, else 0 to 100 %
				object_name	1 - 22 characters, default "GAS_SPT_AV"
analog_value 4	N	N			
			reliability		
				present_value	if Celcius, 10 to 35 if Fahrenheit 50 to 95
				object_name	1 - 22 characters, default "TEMP_SPT_AV"
				units	Fahrenheit (64) or Celcisus (62)
analog_value 5	N	N			
			reliability		
				present_value	0 to 100%
				object_name	1 - 22 characters, default "RH_SPT_AV"
binary_input 6	N	N			
			reliability		
				present_value	
				out_of_service	
				object_name	1 - 22 characters, default "IAQGOOD_BI"
binary_input 7	N	N			
				present_value	
				out_of_service	
				object_name	1 - 22 characters, default "OVDTIMER_BI"
binary_output 8	N	N			
			reliability		
				object_name	1 - 22 characters, default "RLY_DRV_BO"
binary_output 9	N	N			
			reliability		

				object_name	1 - 22 characters, default "OCC_DRV_BO"

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): 9600, 19200, 38400, 57600, 76800, 115200
☐ 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:

_____This is not a gateway_____