

5.2 Appendix B : PICS (D-BACS Interface for use in BACnet® Ver. 6.20) BACnet Protocol Implementation Conformance Statement

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Vendor Name : DAIKIN INDUSTRIES, Ltd.

Product Name : D-BACS Interface for use in BACnet®

Product Model Number : DMS502B51

Applications Software Version : 6.20.00 Firmware Revision : 000.001 BACnet Protocol Revision : 4

Product Description :

This product provides the function of monitoring and operating the air-conditioner. The supported Data Link Layer Options are BACnet / IP.

BACnet Standardized Device Profile (Annex L) :

- BACnet Operator Workstation (B-OWS)
- 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)

BACnet Interoperability Building Blocks Supported (Annex K) :

	Supported BIBBs	BIBB Name	Supported	
			Standard support	Optional support
Data Sharing	DS-RP-B	Data Sharing-ReadProperty-B	■	<input type="checkbox"/>
	DS-RPM-B	Data Sharing-ReadPropertyMultiple-B	■	<input type="checkbox"/>
	DS-WP-B	Data Sharing-WriteProperty-B	■	<input type="checkbox"/>
	DS-WPM-B	Data Sharing-WritePropertyMultiple-B	■	<input type="checkbox"/>
	DS-COV-B	Data Sharing-COV-B	■	<input type="checkbox"/>
	DS-COVU-B	Data Sharing-COV-Unsolicited-B	■	<input type="checkbox"/>
Alarm and Event Management	AE-N-I-B	Alarm and Event-Notification Internal-B	<input type="checkbox"/>	■
Device Management	DM-DDB-A	Device Management-Dynamic Device Binding-A	■	<input type="checkbox"/>
	DM-DDB-B	Device Management-Dynamic Device Binding-B	■	<input type="checkbox"/>
	DM-DOB-B	Device Management-Dynamic Object Binding-B	■	<input type="checkbox"/>
	DM-DCC-B	Device Management-DeviceCommunicationControl-B	■	<input type="checkbox"/>
	DM-TS-B	Device Management-Time Synchronization-B	■	<input type="checkbox"/>
	DM-UTC-B	Device Management-UTCTimeSynchronization-B	■	<input type="checkbox"/>
	DM-LM-B	Device Management-List Manipulation-B	<input type="checkbox"/>	■

* In a default setting, AE-N-I-B and DM-LM-B are invalid. They become valid after setting by a setup tool for a service man.

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Standard Object Types Supported :**(1) Accumulator**

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Reliability
 Writable Properties : n / a
 Proprietary Properties : n / a
 Property Range Restrictions : n / a

(2) Analog Input**a) Room Temperature**

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Reliability, COV_Increment,
 (Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband,
 Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type,
 Event_Time_Stamps)
 * These properties are supported when intrinsic reporting is valid.
 Writable Properties : (High_Limit, Low_Limit, Deadband, Limit_Enable)
 * These properties are supported when intrinsic reporting is valid.
 Proprietary Properties : n / a
 Property Range Restrictions: n / a

b) Others

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Reliability, COV_Increment,
 Writable Properties : n / a
 Proprietary Properties : n / a
 Property Range Restrictions : n / a

(3) Analog Value

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Reliability, Priority_Array, Relinquish_Default, COV_Increment
 Writable Properties : Present_Value
 Proprietary Properties : n / a
 Property Range Restrictions : n / a

(4) Binary Input**a) Alarm Sign, Filter Limit Sign**

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Reliability, Description (Only Alarm Sign supports), (Time_Delay,
 Notification_Class, Alarm_Value, Event_Enable, Acked_Transitions, Notify_Type,
 Event_Time_Stamps)
 * These properties are supported when intrinsic reporting is valid.
 Writable Properties : n / a
 Proprietary Properties : n / a
 Property Range Restrictions : n / a

b) ON / OFF (Status)

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Reliability,
 Change_Of_State_Time, Change_Of_State_Count, Time_Of_State_Count_Reset,
 Elapsed_Active_Time, Time_Of_Active_Time_Reset
 Writable Properties : n / a
 Proprietary Properties : n / a
 Property Range Restrictions: n / a

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c) Others

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Reliability
 Writable Properties : n / a
 Proprietary Properties : n / a
 Property Range Restrictions : n / a

(5) Binary Output

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Reliability,
 Writable Properties : Present_Value
 Proprietary Properties : n / a
 Property Range Restrictions : n / a

(6) Binary Value**a) Filter Limit Sign Reset**

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Reliability, Priority_Array, Relinquish_Default,
 (Time_Delay, Notification_Class, Alarm_Value, Event_Enable,
 Acked_Transitions, Notify_Type, Event_Time_Stamps)
 * These properties are supported when intrinsic reporting is valid.
 Writable Properties : Present_Value
 Proprietary Properties : n / a
 Property Range Restrictions : n / a

b) Others

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Reliability, Priority_Array, Relinquish_Default,
 Writable Properties : Present_Value
 Proprietary Properties : n / a
 Property Range Restrictions : n / a

(7) Device

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Max_Segment_Accepted, Local_Time, Local_Date, UTC_Offset,
 Daylight_Saving_Status, APDU_Segment_Timeout,
 Active_COV_Subscriptions
 Writable Properties : n / a
 Proprietary Properties : n / a
 Property Range Restrictions : n / a

(8) Multi-state Input

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Reliability, Description (Only Error Code supports.)
 Writable Properties : n / a
 Proprietary Properties : n / a
 Property Range Restrictions : n / a

(9) Multi-state Output

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : Reliability
 Writable Properties : Present_Value
 Proprietary Properties : n / a
 Property Range Restrictions : n / a

(10) Notification Class

Dynamically Creatable : No
 Dynamically Deletable : No
 Optional Properties Supported : n / a
 Writable Properties : Recipient_List
 Proprietary Properties : n / a
 Property Range Restrictions : n / a

* Notification Class Object exists when intrinsic reporting is valid.

Data Link Layer Options:

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ANSI / ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ANSI / ATA 878.1, RS-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 : _____
- 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

Character Sets Supported :

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

- ANSI X3.4 IBM™ / Microsoft™ DBCS ISO 8859-1
- ISO 10646 (UCS-2) ISO 10646 (UCS-4) JIS C 6226

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

Not applicable.

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