

BACnet Protocol Implementation Conformance Statement

Date: 07.02.2024

Vendor Name: KSB SE & Co. KGaA Frankenthal

Product:

Name	Model Number	Application Software Version	Firmware Version	BACnet Protocol Revision
PumpDrive 2	PD2.BACnet	>= 1.7.0	1.0.0	1.10

Product Description:

Frequency inverter for pump applications, power range 0.37-55 kW, with BACnet MS/TP-Interface.

BACnet Standardized Device Profile (Annex L):

BACnet Application Specific Controller (B-ASC)

BACnet Interoperability Building Blocks Supported:

Data Sharing BIBBs

Data Sharing ReadProperty-B	DS-RP-B
Data Sharing ReadPropertyMultiple-B	DS-RPM-B
Data Sharing WriteProperty-B	DS-WP-B
Data Sharing COV-Unsubscribed -B	DS-COVU-B

Device Management BIBBs

Device Management Dynamic Device Binding-B	DM-DDB-B
Device Management Dynamic Object Binding-B	DM-DOB-B
Device Management DeviceCommunicationControl-B	DM-DCC-B
Device Management TimeSynchronization-B	DM-TS-B
Device Management ReinitializeDevice-B	DM-RD-B
Device Management Backup and Restore-B	DM-BR-B

Segmentation Capability:

Segmentation requests supported	N/A
Segmentation responses supported	N/A

Standard Object Types Supported:

Object Type	Dynamically Createable	Dynamically Deleteable
Analog Input	No	No
Analog Value	No	No
Binary Input	No	No
Binary Value	No	No
Device	No	No
File	No	No
Multistate Input	No	No
Multistate Value	No	No

Analog Input	
Optional Properties Supported	Writeable Properties
Description Reliability COV_Increment Notification_Class Profile_Name	Object_Name (max. 64 Bytes) Description (max. 64 Bytes) Out_Of_Service COV_Increment Notification_Class (0:COV disable, 1:COV enable) Present_Value

Analog Value	
Optional Properties Supported	Writeable Properties
Description Reliability Priority_Array Relinquish_Default COV_Increment Notification_Class Profile_Name	Object_Name (max. 64 Bytes) Present_Value (max. 64 Bytes) Description Notification_Class (0:COV disable, 1:COV enable) Present_Value

Binary Input	
Optional Properties Supported	Writeable Properties
Description Reliability Inactive_Text Active_Text Notification_Class Profile_Name	Object_Name (max. 64 Bytes) Description (max. 64 Bytes) Out_Of_Service Polarity Notification_Class (0:COV disable, 1:COV enable) Present_Value Inactive_Text Active_Text

Binary Value	
Optional Properties Supported	Writeable Properties
Description Reliability Inactive_Text Active_Text Notification_Class Profile_Name Polarity	Object_Name (max. 64 Bytes) Description (max. 64 Bytes) Out_Of_Service Polarity Notification_Class (0:COV disable, 1:COV enable) Present_Value Inactive_Text Active_Text

Device	
Optional Properties Supported	Writeable Properties
Location Description Local_Time Local_Date UTC_Offset (used as global COV mode) Configuration Files Backup_Failure_Timeout Last_Restore_Time Max_Master Max_Info_Frames Time_Of_Device_Restart Last_Restart_Reason	Location (max. 64 Bytes) Object_Name (max. 64 Bytes) Object_Identifier Instance Description (max. 64 Bytes) UTC_Offset (COV 0: Off, 1: LocalNet, 2: GlobalNet) Max_Master (1..127) Max_Info_Frames (1..255)

File	
Optional Properties Supported	Writeable Properties
Description Profile_Name	

Multistate Input	
Optional Properties Supported	Writeable Properties
Description	Object_Name (max. 64 Bytes)
Reliability	Description (max. 64 Bytes)
State_Text	Notification_Class (0:COV disable, 1:COV enable)
Notification_Class	Out_Of_Service
Profile_Name	Present_Value

Multistate Value	
Optional Properties Supported	Writeable Properties
Description	Object_Name (max. 64 Bytes)
Reliability	Description (max. 64 Bytes)
State_Text	Notification_Class (0:COV disable, 1:COV enable)
Notification_Class	Out_Of_Service
Profile_Name	Present_Value

Data Link Layer Options:

MS/TP master, baud rate(s): 9600, 19200, **38400**, 57600, 76800, 115200

Device Address Binding:

Static device address binding is not supported

Networking Options:

N/A

Network Security Options:

Non-secure Device - is capable of operating without BACnet Network Security

Character Sets Supported:

ISO 10646 (UTF-8)

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

N/A