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For Berner Air Curtains with *Berner AIR® BMS Package*

BACnet Protocol Implementation Conformance Statement (PICS)	
Date	26 March 2025
Vendor Name	Berner International, LLC
Product Name	Berner AIR® BMS
Product Model	Intelliswitch
Software Version	3.00
Firmware Revision	1.46
Protocol Revision	19

BACnet Device Profile	
BACnet Application Specific Controller	B-ASC

BIBB'S Supported	
Who-Is / I-Am	DM-DDB-B
Who-Has / I-Have	DM-DOB-B
Read/write property	DS-RP-B, DS-WP-B
Read/write multiple properties	DS-RPM-B, DS-WPM-B
Subscribe COV	DS-COV-B
Time synchronization	DM-TS-B
UTC time synchronization	DM-UTC-B
Reset Device	DM-RS-B
Device Communication Control	DM-DCC-B

Date Link Layers Supported	
BACnet MS/TP	
BACnet IP	
BACnet-IP, Foreign Device	



Proprietary Objects		
Object Name	Object ID	Description
Mode	multiStateValue:1	Get or set the mode. <i>Number of states: 2 - 5 (depends on air curtain model)</i> <i>States: Off (1), On (2), Auto (3), Comfort+ (4), BMS (5)</i>
DoorOpenCount	positiveIntegerValue:1	Number of times door opened since midnight. <i>Default: 0</i>
FanSpeed	positiveIntegerValue:2	Get or set the fan speed. <i>Min value: 1</i> <i>Max value: 1, 2, 3 or 10 (depends on air curtain model)</i>
TimeDelay	positiveIntegerValue:3	Get or set the time delay in seconds. <i>Default: 30 (seconds).</i>
DoorStatus	binaryInput:1	Get door status: opened (active) or closed (inactive). <i>Default: Inactive (closed)</i>
CallForFan	binaryValue:1	Activates the fan if current mode is BMS
Serial	networkPort:1	Network configuration. Depends on operation mode.
Wired/Wireless	networkPort:1	Network configuration. Depends on operation mode and in IP mode depends on the chosen interface between wired and wireless.
Heated Models Only		
TargetTemperatureFahrenheit	analogValue:1	Temperature set point. <i>Min: 34</i> <i>Max: 90</i> <i>Units: Fahrenheit</i>
TargetTemperatureCelsius	analogValue:2	Temperature set point. <i>Min: 1</i> <i>Max: 32</i> <i>Units: Celsius</i>
TemperatureFahrenheit	analogInput:1	Current temperature at the door. <i>Units: Fahrenheit</i>
TemperatureCelsius	analogInput:2	Current temperature at the door. <i>Units: Celsius</i>
CoolDownDelay	positiveIntegerValue:4	Get or set the heater cool down delay in seconds.
HeaterDisabled	binaryValue:3	Disable Heater completely
CallForHeat	binaryValue:2	Activates the heater if current mode is BMS

Mode Object (RW)		
Object Identifier	multiStateValue:1	RO
Object Name	Mode	RO
Description	Get/Set air curtain mode	RO
Number Of States	2-5	RO
State Text	'Off' (1), 'On' (2), 'Auto' (3) or 'Comfort+' (4), 'BMS' (5)	RO
Out Of Service	True (Emergency Stop Activated) or False	RO
Status Flags	inAlarm: 0, fault: 0, overridden: 0, outOfService: 0 or 1 (Emergency Stop Activated)	RO
Event State	Always 'normal'	RO
COV Increment	1	RO
Present Value	Unsigned (current state)	RW

Door Open Count Object (RO)		
Object Identifier	positiveIntegerValue:1	RO
Object Name	DoorOpenCount	RO
Description	Number of times door opened since midnight.	RO
Out Of Service	Always False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Event State	Always 'normal'	RO
COV Increment	1	RO
Present Value	Unsigned (door openings)	RO
Units	No units	RO

Fan Speed Object (RW)		
Object Identifier	positiveIntegerValue:2	RO
Object Name	FanSpeed	RO
Description	Get or set the fan speed.	RO
Out Of Service	False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Event State	Always 'normal'	RO
COV Increment	1	RO
Present Value	Unsigned (fan speed, usually 1 to 10)	RW
Units	No units	RO
Minimum Present Value	1	RO
Maximum Present Value	1, 2, 3 or 10 (depends on air curtain model)	RO

Time Delay Object (RW)		
Object Identifier	positiveIntegerValue:3	RO
Object Name	TimeDelay	RO
Description	Get or set the time delay in seconds.	RO
Out Of Service	False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Event State	Always 'normal'	RO
COV Increment	1	RO
Present Value	Unsigned	RW
Units	Seconds	RO
Minimum Present Value	0	RO
Maximum Present Value	300	RO

Door Status Object (RO)		
Object Identifier	binaryInput:1	RO
Object Name	DoorStatus	RO
Description	Get door status: opened (active) or closed (inactive).	RO
Out Of Service	False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Event State	Always 'normal'	RO
Present Value	Binary (active or inactive)	RO

Call For Fan Object (RW)		
Object Identifier	binaryValue:1	RO
Object Name	CallForFan	RO
Description	Get/Set air curtain call for fan in BMS mode: OFF (inactive), ON (active)	RO
Out Of Service	Always False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Event State	Always 'normal'	RO
Present Value	Binary (active or inactive)	RW

Serial Object (RW)		
Object Identifier	networkPort:1	RO
Object Name	Serial	RO
Out Of Service	Always False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Link Speed	0	RO
Reference Port	4194303	RO
Network Number	0	RO
Network Number Quality	0	RO
Protocol Level	2 (BACnet Application)	RO
Change Pending	Becomes True if RW properties are modified and not yet applied	RO
Max Master	MS/TP Max master config	RW
Max Info Frames	MS/TP Max info frames config	RW
APDU Length	480	RO
Mac Address	MS/TP device MAC Address 0-127	RW
Network Type	2 (MS/TP)	RO

Wired Object or Wireless Object (RW)		
Object Identifier	networkPort:1	RO
Object Name	Wired or Wireless (configurable on touchscreen or mobile app)	RO
Out Of Service	Always False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Link Speed	0	RO
Change Pending	False	RO
Reference Port	4194303	RO
Network Number	0	RO
Network Number Quality	0	RO
Protocol Level	2 (BACnet Application)	RO
Change Pending	Becomes True if RW properties are modified and not yet applied	RO
APDU Length	1476	RO
IP Address	IP Address of the chosen interface	RW
IP DHCP Enabled	DHCP enabled	RW
IP Subnet Mask	Subnet mask of the IP address	RW
IP Default Gateway	IP Address of the default gateway on the chosen interface	RW
IP DNS Servers	List of IP address of the DNS servers	RW
BACnet IP mode	0	RO
BACnet IP UDP Port	47808 or as configured	RW
FD Subscription Lifetime	30 or as configured	RW
FD BBMD Address	BBMD IP Address and Port as configured	RW
MAC Address	Device MAC Address	RO
Network Type	5 (IPV4)	RO

This section applies to heated models only.

Target Temperature Fahrenheit Object (RW)		
Object Identifier	analogValue:1	RO
Object Name	TargetTemperatureFahrenheit	RO
Description	Temperature set point.	RO
Out Of Service	False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Event State	Always 'normal'	RO
COV Increment	0.1	RO
Resolution	0.1	RO
Present Value	Real	RW
Units	Fahrenheit	RO
Minimum Present Value	34	RO
Maximum Present Value	90	RO

Target Temperature Celsius Object (RW)		
Object Identifier	analogValue:2	RO
Object Name	TargetTemperatureCelsius	RO
Description	Temperature set point.	RO
Out Of Service	False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Event State	Always 'normal'	RO
COV Increment	0.1	RO
Resolution	0.1	RO
Present Value	Real	RW
Units	Celsius	RO
Minimum Present Value	1	RO
Maximum Present Value	32	RO

Temperature Fahrenheit Object (RO)		
Object Identifier	analogInput:1	RO
Object Name	TemperatureFahrenheit	RO
Description	Temperature set point.	RO
Out Of Service	False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Event State	Always 'normal'	RO
COV Increment	0.1	RO
Resolution	0.1	RO
Present Value	Real	RO
Units	Fahrenheit	RO

Temperature Celsius Object (RO)		
Object Identifier	analogInput:2	RO
Object Name	TemperatureCelsius	RO
Description	Current temperature at the door	RO
Out Of Service	False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Event State	Always 'normal'	RO
COV Increment	0.1	RO
Resolution	0.1	RO
Present Value	Real	RO
Units	Celsius	RO

Cool Down Delay Object (RW)		
Object Identifier	positiveIntegerValue:4	RO
Object Name	Cool Down Delay	RO
Description	Get or set the heater cool down delay in seconds.	RO
Out Of Service	False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Event State	Always 'normal'	RO
COV Increment	1	RO
Present Value	Unsigned	RW
Units	Seconds	RO

Cool Down Delay Object (RW)

Minimum Present Value	0	RO
Maximum Present Value	300	RO

Heater Disabled Object (RW)

Object Identifier	binaryValue:3	RO
Object Name	HeaterDisabled	RO
Description	Get or set disabling the heater: ON (active) or OFF (inactive)	RO
Out Of Service	False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Event State	Always 'normal'	RO
Present Value	Binary (active or inactive)	RW

Call For Heat Object (RW)

Object Identifier	binaryValue:2	RO
Object Name	CallForHeat	RO
Description	Get/Set air curtain call for heat in BMS mode: OFF (inactive), ON (active)	RO
Out Of Service	Always False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: 0	RO
Event State	Always 'normal'	RO
Present Value	Binary (active or inactive)	RW