

For Berner Architectural Elite 8 & 10 Series Air Curtains, Model Numbers: AE08-F and AE10-F

BACnet Protocol Implementation Conformance Statement (PICS)	
Date	23 May 2024
Vendor Name	Berner International, LLC
Product Name	Berner AIR® BMS
Product Model	Intelliswitch, g5
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 - 4 (depends on air curtain model)</i> <i>States: Off (1), On (2), Auto (3), Comfort+ (4)</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>
Wired/Wireless/Serial	networkPort:1	Network configuration. Depends on operation mode and if 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>

Mode Object (RW)		
Object Identifier	multiStateValue:1	RO
Object Name	Mode	RO
Description	Get/Set air curtain mode	RO
Number Of States	2-4	RO
State Text	'Off' (1), 'On' (2), 'Auto' (3) or 'Comfort+' (4)	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 (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 (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

Network Port (RO)		
Object Identifier	networkPort:1	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

Serial only		
Object Name	Serial	RO
Max Master	MS/TP Max master config	RO
Max Info Frames	MS/TP Max info frames config	RO
APDU Length	480	RO
Mac Address	MS/TP device MAC Address 0-127	RO
Network Type	2 (MS/TP)	RO

Wired and Wireless only		
Object Name	Wired or Wireless (configurable on touchscreen or mobile app)	RO
APDU Length	1476	RO
Change Pending	False	RO
Ip Address	Ip Address of the chosen interface	RO
Ip Subnet Mask	Subnet mask of the Ip address	RO
Ip Default Gateway	Ip Address of the default gateway on the chosen interface	RO
Ip DNS Servers	List of Ip address of the DNS servers	RO
BACnet IP mode	0	RO
BACnet IP UDP Port	47808 or as configured	RO
FD Subscription Lifetime	30 or as configured	RO
FD BBMD Address	BBMD Ip Address and Port as configured	RO
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