

Berner AIR BACnet PICS

BACnet Protocol Implementation Conformance Statement (PICS)	
Date	28 March 2024
Vendor Name	Berner International, LLC
Product Name	Berner AIR
Product Model	Berner WCA
Software Version	2.33
Firmware Revision	2254
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
Weekly schedule	SCHED-WS-I-B
Reset Device	DM-RS-B
Device Communication Control	DM-DCC-B

Date Link Layers Supported
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>
OperatingHours	schedule:1	Get or set weekly schedule. <i>Default: 24/7</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 for currently selected mode. <i>Default: 30 (seconds).</i>
DoorStatus	binaryInput:1	Get door status: opened (active) or closed (inactive). <i>Default: Inactive (closed)</i>
OperatingStatus	binaryInput:2	Current operating status (active or inactive). <i>Default: Active (on)</i>
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	True if WCA not connected to IntelliSwitch, otherwise False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: (0 or 1 same as above)	RO
Event State	Always 'normal'	RO
COV Increment	1	RO
Present Value	Unsigned (current state)	RW

Operating Hours Object (RW)		
Object Identifier	schedule:1	RO
Object Name	OperatingHours	RO
Description	Get/Set air curtain operating hours	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	Boolean (True if schedule is enabled, False otherwise)	RO
Weekly Schedule	ArrayOf(DailySchedule)	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	True if WCA not connected to IntelliSwitch, otherwise False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: (0 or 1 same as above)	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 for currently selected mode.	RO
Out Of Service	True if WCA not connected to IntelliSwitch, otherwise False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: (0 or 1 same as above)	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	True if WCA not connected to IntelliSwitch, otherwise False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: (0 or 1 same as above)	RO
Event State	Always 'normal'	RO
Present Value	Binary (active or inactive)	RO



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Operating Status (RO)		
Object Identifier	binaryInput:2	RO
Object Name	OperatingStatus	RO
Description	Current operating status (active or inactive). Based on schedule.	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)	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	True if WCA not connected to IntelliSwitch, otherwise False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: (0 or 1 same as above)	RO
Event State	Always 'normal'	RO
COV Increment	1.0	RO
Resolution	1.0	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	True if WCA not connected to IntelliSwitch, otherwise False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: (0 or 1 same as above)	RO
Event State	Always 'normal'	RO
COV Increment	0.5	RO
Resolution	0.5	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	True if WCA not connected to IntelliSwitch, otherwise False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: (0 or 1 same as above)	RO
Event State	Always 'normal'	RO
COV Increment	1.0	RO
Resolution	1.0	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	True if WCA not connected to IntelliSwitch, otherwise False	RO
Status Flags	Always inAlarm: 0, fault: 0, overridden: 0, outOfService: (0 or 1 same as above)	RO
Event State	Always 'normal'	RO
COV Increment	0.5	RO
Resolution	0.5	RO
Present Value	Real	RO
Units	Celsius	RO