

A U R O R A

HydroLink

BACnet Points List For NXW/SKW

Aurora HydroLink BACnet Points List For NXW/SKW

BACnet Points for HydroLink for NXW/SKW

Software Version 1.03 Utilizing the Aurora HydroLink Controller



Object Name	Object Type	Inst Num	Units	Default	Range	BACnet Writable	Description	State Text		Applicable Configurations						
								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll
ActiveTempSetpt_st	Analog Value	0	°F	--	--	no	Currently active setpoint value for control logic	X	X	X	X					
ControlTemp_st	Analog Value	1	°F	--	--	no	Currently selected temperature value for setpoint control	X	X	X	X					
AXBA_HotWaterTemp_st	Analog Value	2	°F	--	--	no	HWT temperature input on AXB-A. This input can be used by the field as needed.	X	X	X	X	X	X	X		
CompACurrentT1_st	Analog Value	3	A	--	--	no	Compressor A T1 current	X	X	X	X	X	X	X		
CompACurrentT2_st	Analog Value	4	A	--	--	no	Compressor A T2 current	X	X	X	X	X	X	X		
CompADischPressure_st	Analog Value	5	psig	--	--	no	Compressor A discharge pressure	X	X	X	X	X	X	X		
CompASuctPressure_st	Analog Value	6	psig	--	--	no	Compressor A suction pressure	X	X	X	X	X	X	X		
SourceWaterFlow_st	Analog Value	7	gal/min	--	--	no	Source heat exchanger water flow rate	X	X	X	X	X	X	X		
SrcLvgWaterTemp_st	Analog Value	8	°F	--	--	no	Source heat exchanger leaving water temperature	X	X	X	X	X	X	X		
SrcEntWaterTemp_st	Analog Value	9	°F	--	--	no	Source heat exchanger entering water temperature	X	X	X	X	X	X	X		
AXBA_LvgAirTempInput_st	Analog Value	10	°F	--	--	no	Lvg Air temperature input on AXB-A. This input can be used by the field as needed.	X	X	X	X	X	X	X		
CompASuctLineTemp_st	Analog Value	11	°F	--	--	no	Compressor A suction line temperature	X	X	X	X	X	X	X		
RemoteTempInput_st	Analog Value	12	°F	--	--	no	HWT temperature input on AXB-B. This input is used for remote temperature control on some configurations	X	X	X	X					
CompBCurrentT1_st	Analog Value	13	A	--	--	no	Compressor B T1 current	X	X	X	X	X	X	X		
CompBCurrentT2_st	Analog Value	14	A	--	--	no	Compressor B T2 current	X	X	X	X	X	X	X		
CompBDischPressure_st	Analog Value	15	psig	--	--	no	Compressor B discharge pressure	X	X	X	X	X	X	X		
CompBSuctPressure_st	Analog Value	16	psig	--	--	no	Compressor B suction pressure	X	X	X	X	X	X	X		
LoadWaterFlow_st	Analog Value	17	gal/min	--	--	no	Load heat exchanger water flow rate	X	X	X	X	X	X	X		
LoadLvgWaterTemp_st	Analog Value	18	°F	--	--	no	Load heat exchanger leaving water temperature	X	X	X	X	X	X	X		
LoadEntWaterTemp_st	Analog Value	19	°F	--	--	no	Load heat exchanger entering water temperature	X	X	X	X	X	X	X		
AXBB_LvgAirTemp_st	Analog Value	20	°F	--	--	no	Lvg Air temperature input on AXB-B. This input can be used by the field as needed.	X	X	X	X	X	X	X		
CompBSuctLineTemp_st	Analog Value	21	°F	--	--	no	Compressor B suction line temperature	X	X	X	X	X	X	X		
CoolingSetpoint_c	Analog Value	22	°F	50°F	20°F - 135°F	in1,in8,in16	Cooling set point used for set point control mode	X	X	X	X					
HeatingSetpoint_c	Analog Value	23	°F	80°F	20°F - 135°F	in1,in8,in16	Heating set point used for set point control mode	X	X	X	X					
PIDExecuteTime_c	Analog Value	24	sec	15 sec	0 sec -	in1,in8,in16	PID execution time used for set point control mode	X	X	X	X					

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								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll
CoolingDifferential_c	Analog Value	25	Δ°F	2.5 Δ°F	0.5 Δ°F - 20 Δ°F	in1,in8,in16	Cooling differential used for set point control mode. Distance from cooling set point that the lead compressor will start to run.	X	X	X	X				
HeatingDifferential_c	Analog Value	26	Δ°F	Δ°F	Δ°F	in1,in8,in16	Heating differential used for set point control mode. Distance from heating set point that the lead compressor will start to run.	X	X	X	X				
DervConst_c	Analog Value	27	--	0	0 - 50	in1,in8,in16	PID Derivative used for set point control mode	X	X	X	X				
PropConst_c	Analog Value	28	--	8	0.1 - 500	in1,in8,in16	PID Proportional constant used for set point control mode	X	X	X	X				
IntConst_c	Analog Value	29	--	0.2	0 - 50	in1,in8,in16	PID Integral constant used for set point control mode	X	X	X	X				
RemoteTempSensorOffset_c	Analog Value	30	Δ°F	0 Δ°F	-5 Δ°F - 5 Δ°F	in1,in8,in16	Calibration offset for the remote temperature sensor	X	X	X	X				
LoadLvgWaterHighTempFaultLimit_c	Analog Value	31	°F	200°F	0°F - 200°F	in1,in8,in16	Load leaving high water temperature fault limit. Controls will shutdown the compressor if this limit is exceeded.	X	X	X	X	X	X	X	X
LoadEntWaterCalib_c	Analog Value	32	Δ°F	0 Δ°F	-5 Δ°F - 5 Δ°F	in1,in8,in16	Calibration offset for the entering load water temperature sensor	X	X	X	X	X	X	X	X
LoadEntWaterLowTempFaultLimit_c	Analog Value	33	°F	0°F	0°F - 200°F	in1,in8,in16	Load entering low water temperature fault limit. Controls will shutdown the compressor if this limit is exceeded.	X	X	X	X	X	X	X	X
LoadEntWaterHighTempFaultLimit_c	Analog Value	34	°F	200°F	0°F - 200°F	in1,in8,in16	Load entering high water temperature fault limit. Controls will shutdown the compressor if this limit is exceeded.	X	X	X	X	X	X	X	X
LoadLeavingWaterCalib_c	Analog Value	35	Δ°F	0 Δ°F	-5 Δ°F - 5 Δ°F	in1,in8,in16	Calibration offset for the leaving load water temperature sensor	X	X	X	X	X	X	X	X
LoadLvgWaterLowTempFaultLimit_c	Analog Value	36	°F	0°F	0°F - 200°F	in1,in8,in16	Load leaving low water temperature fault limit. Controls will shutdown the compressor if this limit is exceeded.	X	X	X	X	X	X	X	X
LoadLWTLowAlarmLimit_c	Analog Value	37	°F	0°F	0°F - 200°F	in1,in8,in16	Load leaving low water temperature alarm limit. This is a warning limit, the controls will allow compressor operation to continue if this is exceeded.	X	X	X	X	X	X	X	X
LoadEWTHighAlarmLimit_c	Analog Value	38	°F	200°F	0°F - 200°F	in1,in8,in16	Load entering high water temperature alarm limit. This is a warning limit, the controls will allow compressor operation to continue if this is exceeded.	X	X	X	X	X	X	X	X
LoadEWTLowAlarmLimit_c	Analog Value	39	°F	0°F	0°F - 200°F	in1,in8,in16	Load entering low water temperature alarm limit. This is a warning limit, the controls will allow compressor operation to continue if this is exceeded.	X	X	X	X	X	X	X	X
LoadLWTHighAlarmLimit_c	Analog Value	40	°F	200°F	0°F - 200°F	in1,in8,in16	Load leaving high water temperature alarm limit. This is a warning limit, the controls will allow compressor operation to continue if this is exceeded.	X	X	X	X	X	X	X	X
SrcLvgWaterHighTempFaultLimit_c	Analog Value	41	°F	200°F	0°F - 200°F	in1,in8,in16	Source leaving high water temperature fault limit. Controls will shutdown the compressor if this limit is exceeded.	X	X	X	X	X	X	X	X
SrcEntWaterCalib_c	Analog Value	42	Δ°F	0 Δ°F	-5 Δ°F - 5 Δ°F	in1,in8,in16	Calibration offset for the entering source water temperature sensor	X	X	X	X	X	X	X	X
SrcEntWaterLowTempFaultLimit_c	Analog Value	43	°F	0°F	0°F - 200°F	in1,in8,in16	Source entering low water temperature fault limit. Controls will shutdown the compressor if this limit is exceeded.	X	X	X	X	X	X	X	X
SrcEntWaterHighTempFaultLimit_c	Analog Value	44	°F	200°F	0°F - 200°F	in1,in8,in16	Source entering high water temperature fault limit. Controls will shutdown the compressor if this limit is exceeded.	X	X	X	X	X	X	X	X

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								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll
SrcLeavingWaterCalib_c	Analog Value	45	Δ°F	0 Δ°F	-5 Δ°F - 5 Δ°F	in1,in8,in16	Calibration offset for the leaving source water temperature sensor	X	X	X	X	X	X	X	
SrcLvgWaterLowTempFaultLimit_c	Analog Value	46	°F	0°F	0°F - 200°F	in1,in8,in16	Source leaving low water temperature fault limit. Controls will shutdown the compressor if this limit is exceeded.	X	X	X	X	X	X	X	
SrcLWTLowAlarmLimit_c	Analog Value	47	°F	0°F	0°F - 200°F	in1,in8,in16	Source leaving low water temperature alarm limit. This is a warning limit, the controls will allow compressor operation to continue if this is exceeded.	X	X	X	X	X	X	X	
SrcEWHHighAlarmLimit_c	Analog Value	48	°F	200°F	0°F - 200°F	in1,in8,in16	Source entering high water temperature alarm limit. This is a warning limit, the controls will allow compressor operation to continue if this is exceeded.	X	X	X	X	X	X	X	
SrcEWTLowAlarmLimit_c	Analog Value	49	°F	0°F	0°F - 200°F	in1,in8,in16	Source entering low water temperature alarm limit. This is a warning limit, the controls will allow compressor operation to continue if this is exceeded.	X	X	X	X	X	X	X	
SrcLWTHighAlarmLimit_c	Analog Value	50	°F	200°F	0°F - 200°F	in1,in8,in16	Source leaving high water temperature alarm limit. This is a warning limit, the controls will allow compressor operation to continue if this is exceeded.	X	X	X	X	X	X	X	
SlowValveTimer_c	Analog Value	51	sec	60 sec	15 sec - 300 sec	in1,in8,in16	Delay time to allow the water valves to open before the compressor starts.	X	X	X	X	X	X	X	
CompPowerFactorAdjust_c	Analog Value	52	--	0.88	0.25 - 1.00	in1,in8,in16	Adjustment of the compressor power factor. Used in dual scroll power calculation.	X	X	X	X	X	X	X	
MeasuredLineVoltageCal_c	Analog Value	53	V	480 V	90 V - 650 V	in1,in8,in16	Calibrates the line voltage calculation. Used in dual scroll power calculation.	X	X	X	X	X	X	X	
ABCBLockoutStatusAna_st	Analog Value	54	--	--	--	no	Most recent fault code for compressor B	X	X	X	X	X	X	X	
ABCALockoutStatusAna_st	Analog Value	55	--	--	--	no	Most recent fault code for compressor A	X	X	X	X	X	X	X	
ABCA_FP2_st	Analog Value	56	°F	--	--	no	Compressor A FP2 temperature value	X	X	X	X	X	X	X	
ABCA_FP1_st	Analog Value	57	°F	--	--	no	Compressor A FP1 temperature value	X	X	X	X	X	X	X	
ABCB_FP2_st	Analog Value	58	°F	--	--	no	Compressor B FP2 temperature value	X	X	X	X	X	X	X	
ABCB_FP1_st	Analog Value	59	°F	--	--	no	Compressor B FP1 temperature value	X	X	X	X	X	X	X	
FP2LimitOverride_c	Analog Value	60	°F	-0.1°F	-0.1°F - 30°F	in1,in8,in16	FP2 Setpoint Over-ride. When ABC DIP-2 FP2 set point is configured to 15 degrees this parameter will allow the set point to be adjusted between 15 and 30 degrees F. A value of -0.1 disables the over-ride.	X	X	X	X	X	X	X	
FP1LimitOverride_c	Analog Value	61	°F	-0.1°F	-0.1°F - 30°F	in1,in8,in16	FP1 Setpoint Over-ride. When ABC DIP-1 FP1 set point is configured to 15 degrees this parameter will allow the set point to be adjusted between 15 and 30 degrees F. A value of -0.1 disables the over-ride.	X	X	X	X	X	X	X	
NetworkTemperature_c	Analog Value	62	°F	--	--	in1,in8,in16	Network supplied temperature value for setpoint control with network temperature			X	X				
CompressorHoursA_st	Analog Value	63	hr	--	--	no	Compressor A operating hours			X	X	X	X	X	
SaturatedEvapTempA_st	Analog Value	64	°F	--	--	no	Compressor A saturated evaporator temperature			X	X	X	X	X	
SaturatedCondTempA_st	Analog Value	65	°F	--	--	no	Compressor A saturated condenser temperature			X	X	X	X	X	

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								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	
SuperheatA_st	Analog Value	66	°F	--	--	no	Compressor A superheat value			X	X	X	X	X	X		
SubcoolingA_st	Analog Value	67	°F	--	--	no	Compressor A subcooling value			X	X	X	X	X	X		
EEVPositionA_st	Analog Value	68	%	--	--	no	Compressor A EEV position			X	X	X	X	X	X		
CompressorHoursB_st	Analog Value	69	hr	--	--	no	Compressor B operating hours			X	X	X	X	X	X		
SaturatedEvapTempB_st	Analog Value	70	°F	--	--	no	Compressor B saturated evaporator temperature			X	X	X	X	X	X		
SaturatedCondTempB_st	Analog Value	71	°F	--	--	no	Compressor B saturated condenser temperature			X	X	X	X	X	X		
SuperheatB_st	Analog Value	72	°F	--	--	no	Compressor B superheat value			X	X	X	X	X	X		
SubcoolingB_st	Analog Value	73	°F	--	--	no	Compressor B subcooling value			X	X	X	X	X	X		
EEVPositionB_st	Analog Value	74	%	--	--	no	Compressor B EEV position			X	X	X	X	X	X		
ColdWaterSP_c	Analog Value	500	°F	50°F	25°F - 80°F	in1,in8,in16	Cold water setpoint for header rack applications						X	X	X		
HotWaterSP_c	Analog Value	501	°F	80°F	50°F - 150°F	in1,in8,in16	Hot water setpoint for header rack applications						X	X	X		
ColdDeltaOn_c	Analog Value	502	Δ°F	3 Δ°F	1 Δ°F - 20 Δ°F	in1,in8,in16	Temperature offset above the cold water setpoint to initiate compressor cooling operation or demand for header rack applications.						X	X	X		
ColdDeltaOff_c	Analog Value	503	Δ°F	3 Δ°F	1 Δ°F - 20 Δ°F	in1,in8,in16	Temperature offset below the cold water setpoint to terminate compressor cooling operation or demand for header rack applications.						X	X	X		
HotDeltaOn_c	Analog Value	504	Δ°F	3 Δ°F	1 Δ°F - 20 Δ°F	in1,in8,in16	Temperature below above the hot water setpoint to initiate compressor heating operation or demand for header rack applications.						X	X	X		
HotDeltaOff_c	Analog Value	505	Δ°F	3 Δ°F	1 Δ°F - 20 Δ°F	in1,in8,in16	Temperature offset above the hot water setpoint to terminate compressor heating operation or demand for header rack applications.						X	X	X		
CW_NetworkTemp_c	Analog Value	506	°F	--	--	in1,in8,in16	Network supplied cold water temperature value for setpoint control with network temperature for header rack applications.						X	X	X		
HW_NetworkTemp_c	Analog Value	507	°F	--	--	in1,in8,in16	Network supplied hot water temperature value for setpoint control with network temperature for header rack applications.						X	X	X		
Geo_NetworkTemp_c	Analog Value	508	°F	--	--	in1,in8,in16	Network supplied geothermal loop temperature for header rack applications.							X	X		
UnitOffsetTemp_c	Analog Value	509	°F	0°F	-20°F - 20°F	in1,in8,in16	Global offset for heating and cooling demands for header rack applications. Value shifts all turn on and turn off points closer to setpoint values.						X	X	X		
NetColdInTemp_c	Analog Value	510	°F	--	--	in1,in8,in16	Network supplied cold water in temperature value for header rack applications. When a network value is supplied it is higher priority and will replace any locally measured value.						X	X	X		
NetColdOutTemp_c	Analog Value	511	°F	--	--	in1,in8,in16	Network supplied cold water out temperature value for header rack applications. When a network value is supplied it is higher priority and will replace any locally measured value.						X	X	X		
NetHotInTemp_c	Analog Value	512	°F	--	--	in1,in8,in16	Network supplied hot water in temperature value for header rack applications. When a network value is supplied it is higher priority and will replace any locally measured value.						X	X	X		

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								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll
NetHotOutTemp_c	Analog Value	513	°F	--	--	in1,in8,in16	Network supplied hot water out temperature value for header rack applications. When a network value is supplied it is higher priority and will replace any locally measured value.							X	X	X
NetGeoInTemp_c	Analog Value	514	°F	--	--	in1,in8,in16	Network supplied geo water in temperature value for header rack applications. When a network value is supplied it is higher priority and will replace any locally measured value.								X	X
NetGeoOutTemp_c	Analog Value	515	°F	--	--	in1,in8,in16	Network supplied geo water out temperature value for header rack applications. When a network value is supplied it is higher priority and will replace any locally measured value.								X	X
MaxHotBypass_c	Analog Value	516	%	100%	0% - 100%	in1,in8,in16	Maximum open position for hot loop bypass valve								X	
MaxColdBypass_c	Analog Value	517	%	100%	0% - 100%	in1,in8,in16	Maximum open position for cold loop bypass valve								X	
MaxGeoBypass_c	Analog Value	518	%	100%	0% - 100%	in1,in8,in16	Maximum open position for geo loop bypass valve								X	
BypassValveOffset_c	Analog Value	519	%	30%	0% - 50%	in1,in8,in16	The percent closed a control valve must reach before the associated bypass valve begins to open								X	
MinLoadValvePos_c	Analog Value	520	%	10%	0% - 100%	in1,in8,in16	The minimum position the load control valves will modulate to during operation								X	
MinSourceValvePos_c	Analog Value	521	%	10%	0% - 100%	in1,in8,in16	The minimum position the source control valves will modulate to during operation								X	
NetColdBypass_c	Analog Value	522	%	100%	0% - 100%	in1,in8,in16	Control position for cold bypass valve when under network control (BV:501 = Active)								X	
NetHotBypass_c	Analog Value	523	%	100%	0% - 100%	in1,in8,in16	Control position for hot bypass valve when under network control (BV:501 = Active)								X	
NetGeoBypass_c	Analog Value	524	%	100%	0% - 100%	in1,in8,in16	Control position for geo bypass valve when under network control (BV:501 = Active)								X	
Y1ActiveY2Time_c	Analog Value	525	sec	300 sec	0 sec - 600 sec	in1,in8,in16	The amount of time that the 1st compressor activated must be active before the 2nd compressor may be activated for header rack applications.							X	X	X
Y2ActiveCapacity_c	Analog Value	526	%	50%	10% - 90%	in1,in8,in16	The calculated PID demand percentage when the 2nd compressor output may be activated.							X	X	X
Y2ActiveOffset_c	Analog Value	527	%	5%	1% - 25%	in1,in8,in16	The calculated PID demand percentage below the activation point where the 2nd compressor output will be deactivated.							X	X	X
PropCool_c	Analog Value	528	--	2	0 - 10	in1,in8,in16	Cooling PID proportional constant used for header rack applications							X	X	X
IntCool_c	Analog Value	529	--	0.3	0 - 10	in1,in8,in16	Cooling PID integral constant used for header rack applications							X	X	X
DerivCool_c	Analog Value	530	--	0.1	0 - 10	in1,in8,in16	Cooling PID derivative constant used for header rack applications							X	X	X
CoolExecuteTime_c	Analog Value	531	sec	5 sec	1 sec - 60 sec	in1,in8,in16	Cooling PID execution time used for header rack applications							X	X	X
CoolRampTime_c	Analog Value	532	min	15 min	1 min - 60 min	in1,in8,in16	Cooling PID ramp time (min time for 0-100%) used for header rack applications							X	X	X
PropHeat_c	Analog Value	533	--	2	0 - 10	in1,in8,in16	Heating PID proportional constant used for header rack applications							X	X	X

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IntHeat_c	Analog Value	534	--	0.3	0 - 10	in1,in8,in16	Heating PID integral constant used for header rack applications								X	X	X
DerivHeat_c	Analog Value	535	--	0.1	0 - 10	in1,in8,in16	Heating PID derivative constant used for header rack applications								X	X	X
HeatExecuteTime_c	Analog Value	536	sec	5 sec	1 sec - 60 sec	in1,in8,in16	Heating PID execution time used for header rack applications								X	X	X
HeatRampTime_c	Analog Value	537	min	15 min	1 min - 60 min	in1,in8,in16	Heating PID ramp time (min time for 0-100%) used for header rack applications								X	X	X
LoadValveProp_c	Analog Value	538	--	2	0 - 10	in1,in8,in16	Load valve PID proportional constant used for header rack applications									X	
LoadValveInt_c	Analog Value	539	--	1	0 - 10	in1,in8,in16	Load valve PID integral constant used for header rack applications									X	
LoadValveExecute_c	Analog Value	540	sec	0.5 sec	0.1 sec - 15 sec	in1,in8,in16	Load valve PID execution time used for header rack applications									X	
SourceValveProp_c	Analog Value	541	--	2	0 - 10	in1,in8,in16	Source valve PID proportional constant used for header rack applications									X	
SourceValveInt_c	Analog Value	542	--	1	0 - 10	in1,in8,in16	Source valve PID integral constant used for header rack applications									X	
SourceValveExecute_c	Analog Value	543	sec	0.5 sec	0.1 sec - 15 sec	in1,in8,in16	Source valve PID execution time used for header rack applications									X	
LoadInTemp_st	Analog Value	544	°F	--	--	no	Load heat exchanger entering water temperature for header rack applications (same as AV:19)								X	X	X
LoadOutTemp_st	Analog Value	545	°F	--	--	no	Load heat exchanger leaving water temperature for header rack applications (same as AV:18)								X	X	X
SourceInTemp_st	Analog Value	546	°F	--	--	no	Source heat exchanger entering water temperature for header rack applications (same as AV:9)								X	X	X
SourceOutTemp_st	Analog Value	547	°F	--	--	no	Source heat exchanger leaving water temperature for header rack applications (same as AV:8)								X	X	X
ColdHeaderInletTemp_st	Analog Value	548	°F	--	--	no	Cold water loop inlet temperature measured by HydroLink controller							X	X	X	X
ColdHeaderOutletTemp_st	Analog Value	549	°F	--	--	no	Cold water loop outlet temperature measured by HydroLink controller							X	X	X	X
HotHeaderInletTemp_st	Analog Value	550	°F	--	--	no	Hot water loop inlet temperature measured by HydroLink controller							X	X	X	X
HotHeaderOutletTemp_st	Analog Value	551	°F	--	--	no	Hot water loop outlet temperature measured by HydroLink controller							X	X	X	X
GeoHeaderInletTemp_st	Analog Value	552	°F	--	--	no	Geothermal loop water inlet temperature measured by HydroLink controller									X	X
GeoHeaderOutletTemp_st	Analog Value	553	°F	--	--	no	Geothermal loop water outlet temperature measured by HydroLink controller									X	X
ActiveColdWaterTemp_st	Analog Value	554	°F	--	--	no	Currently active cold water control temperature for header rack applications								X	X	X
ActiveHotWaterTemp_st	Analog Value	555	°F	--	--	no	Currently active hot water control temperature for header rack applications								X	X	X
ActiveGeoWaterTemp_st	Analog Value	556	°F	--	--	no	Currently active geothermal water temperature for header rack applications									X	X
CurrentDemandPct_st	Analog Value	557	%	--	--	no	Currently calculated PID operating demand percentage								X	X	X
Load3WayValve_st	Analog Value	558	%	--	--	no	Current position of 3-way load control valve								X	X	X
Source3WayValve_st	Analog Value	559	%	--	--	no	Current position of 3-way source control valve								X	X	
ColdBypassValve_st	Analog Value	560	%	--	--	no	Current position of cold water loop bypass valve									X	

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Object Name	Object Type	Inst Num	Units	Default	Range	BACnet Writable	Description	State Text		Applicable Configurations								
								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll		
HotBypassValve_st	Analog Value	561	%	--	--	no	Current position of hot water loop bypass valve										X	
GeoBypassValve_st	Analog Value	562	%	--	--	no	Current position of geothermal loop bypass valve										X	
ManLoad3WayValvePct_c	Analog Value	563	%	0%	0% - 100%	in1,in8,in16	Manually controlled position of 3-way load control valve. The manual control position is used when BV:502 is Active, and manual control values are higher priority and will override position determined by normal control logic									X	X	X
ManSource3WayValvePct_c	Analog Value	564	%	0%	0% - 100%	in1,in8,in16	Manually controlled position of 3-way source control valve. The manual control position is used when BV:502 is Active, and manual control values are higher priority and will override position determined by normal control logic								X	X		
ManColdBypassValvePct_c	Analog Value	565	%	0%	0% - 100%	in1,in8,in16	Manually controlled position of cold water loop bypass valve. The manual control position is used when BV:502 is Active, and manual control values are higher priority and will override position determined by normal control logic or the network control value (AV:522)										X	
ManHotBypassValvePct_c	Analog Value	566	%	0%	0% - 100%	in1,in8,in16	Manually controlled position of hot water loop bypass valve. The manual control position is used when BV:502 is Active, and manual control values are higher priority and will override position determined by normal control logic or the network control value (AV:523)										X	
ManGeoBypassValvePct_c	Analog Value	567	%	0%	0% - 100%	in1,in8,in16	Manually controlled position of geothermal water loop bypass valve. The manual control position is used when BV:502 is Active, and manual control values are higher priority and will override position determined by normal control logic or the network control value (AV:524)										X	
HeaderModeNum_c	Analog Value	568	--	99	0 - 99	in1,in8,in16	Header rack operating mode selection. The use of either AV:568 or MSV:501 is determined by the setting of BV:511. If BV:511 is set to Numeric or False, the AV:568 value is used, and valid values are: 0 = Off with Isolation valves open 1 = Cooling only 2 = Heating only 3 = Auto full building 4 = Full building 5 = Primary cooling 6 = Primary heating 99 = System off								X	X	X	

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Object Name	Object Type	Inst Num	Units	Default	Range	BACnet Writable	Description	State Text		Applicable Configurations					
								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll
SystemStatus_st	Multi State Value	0	--	--	--	no	Displays the current overall system status. Possible values are: 1 = Normal 2 = Alarm 3 = Shutdown 4 = Load Shed A 5 = Load Shed B 6 = Load Shed A & B 7 = AXB A Communication Loss 8 = AXB B Communication Loss 9 = AXB A & B Communication Loss 10 = ABC A Communication Loss 11 = ABC B Communication Loss 12 = ABC A & B Communication Loss 13 = ABC A & ABC B DIP Switch Mismatch 14 = Load Entering Water Temperature Alarm 15 = Load Leaving Water Temperature Alarm 16 = Source Entering Water Temperature Alarm	X	X	X	X	X	X	X	
UnitMode_st	Multi State Value	1	--	--	--	no	Displays the current overall system operating mode. Possible values are: 1 = Standby 3 = Single Compressor Cooling 4 = Both Compressors Cooling 6 = Single Compressor Heating 7 = Both Compressors Heating 10 = Emergency Shutdown 11 = Load Shed 12 = Lockout A 13 = Test Mode 15 = Lockout B 18 = Single Compressor w/Lockout 19 = Full Lockout 31 = Source Flow Switch Fault 32 = Load Flow Switch Fault 33 = Load & Source Flow Switch Fault	X	X	X	X	X	X	X	

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Object Name	Object Type	Inst Num	Units	Default	Range	BACnet Writable	Description	State Text		Applicable Configurations							
								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll
TempControlMethod_c	Multi State Value	2	--	1	1 - 4	in1,in8,in16	Selection of temperature control method for non-header rack applications. Possible values are: 1 = AquaStat (uses Y1 & Y2 inputs on ABC A) 2 = Setpoint (uses either AV:22 or AV:23 as setpoint) 3 = Network (uses BV:34 & BV:35) 4 = Setpoint w/Enable (uses either AV:22 or AV:23 as setpoint and ABC B Y2 input as enable)	X	X	X	X						
ControlTempInput_c	Multi State Value	3	--	2	1 - 4	in1,in8,in16	Selection of control temperature input for non-header rack applications. Possible values are: 1 = Leaving Water (AV:18 Leaving load water temp) 2 = Entering Water (AV:19 Entering load water temp) 3 = Remote Temp (AXB B - HWT) 4 = Network Temp (AV:12)	X	X	X	X						
BrineFactorLoad_c	Multi State Value	4	--	1	1 - 2	in1,in8,in16	Aurora controls brine selection factor for load loop. Possible values are: 1 = Water 2 = Brine	X	X	X	X	X	X	X	X	X	X
EnergyMonitorMode_c	Multi State Value	5	--	3	1 - 3	in1,in8,in16	Aurora controls energy monitoring modes selection. Possible values are: 1 = Off 2 = Compressor Monitoring 3 = Energy Monitoring	X	X	X	X	X	X	X	X	X	X
BrineFactorSource_c	Multi State Value	6	--	1	1 - 2	in1,in8,in16	Aurora controls brine selection factor for source loop. Possible values are: 1 = Water 2 = Brine	X	X	X	X	X	X	X	X	X	X
LoadFlowMeterSelect_c	Multi State Value	7	--	1	1 - 6	in1,in8,in16	Load loop flow meter selection. Possible values are: 1 = None 2 = 3/4", 19mm 3 = 1", 25.4mm 4 = 2", 50.8mm 5 = 2.5", 63.5mm 6 = 1.25", 31.8mm	X	X	X	X	X	X	X	X	X	X

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Object Name	Object Type	Inst Num	Units	Default	Range	BACnet Writable	Description	State Text		Applicable Configurations					
								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll
SrcFlowMeterSelect_c	Multi State Value	8	--	1	1 - 6	in1,in8,in16	Source loop flow meter selection. Possible values are: 1 = None 2 = 3/4", 19mm 3 = 1", 25.4mm 4 = 2", 50.8mm 5 = 2.5", 63.5mm 6 = 1.25", 31.8mm	X	X	X	X	X	X	X	X
ABCBLockoutStatus_st	Multi State Value	9	--	--	--	no	Most recent fault detected by ABC B. Possible values are: 1 = Normal 2 = E1-Input Error 3 = E2-High Pressure 4 = E3-Low Pressure 5 = E4-Freeze Protection 2 6 = E5-Freeze Protection 1 7 = E6-Loss of Charge 8 = E7-Condensate 9 = E8-Over/Under Voltage 11 = E10-Compressor Monitor 14 = E13-AXB Sensor Error - Non Critical 15 = E14-AXB Sensor Error - Critical 17 = E16-Variable Speed Pump Error 19 = E18-Non Critical Comm Error 20 = E19-Critical Comm Error 21 = E20-Loss of Communications 22 = E21-Low Loop Pressure 24 = E23-HA1 Fault 25 = E24-HA2 Fault 27 = E26-Entering Source Water Low Limit 28 = E27-Entering Source Water High Limit 29 = E28-Leaving Source Water Low Limit 30 = E29-Leaving Source Water High Limit 32 = E31-Source Flow	X	X	X	X	X	X	X	

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Object Name	Object Type	Inst Num	Units	Default	Range	BACnet Writable	Description	State Text		Applicable Configurations					
								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll
ABCALockoutStatus_st	Multi State Value	10	--	--	--	no	Most recent fault detected by ABC A. Possible values are: 1 = Normal 2 = E1-Input Error 3 = E2-High Pressure 4 = E3-Low Pressure 5 = E4-Freeze Protection 2 6 = E5-Freeze Protection 1 7 = E6-Loss of Charge 8 = E7-Condensate 9 = E8-Over/Under Voltage 11 = E10-Compressor Monitor 14 = E13-AXB Sensor Error - Non Critical 15 = E14-AXB Sensor Error - Critical 17 = E16-Variable Speed Pump Error 19 = E18-Non Critical Comm Error 20 = E19-Critical Comm Error 21 = E20-Loss of Communications 22 = E21-Low Loop Pressure 24 = E23-HA1 Fault 25 = E24-HA2 Fault 27 = E26-Entering Source Water Low Limit 28 = E27-Entering Source Water High Limit 29 = E28-Leaving Source Water Low Limit 30 = E29-Leaving Source Water High Limit 32 = E31-Source Flow	X	X	X	X	X	X	X	
HeaderRackType_c	Multi State Value	500	--	1	1 - 5	in1,in8,in16	Header rack selection value. Possible values are: 1 = No header 2 = 4 Pipe Standard 3 = 4 Pipe Reversing 4 = 6 Pipe Standard 5 = 6 Pipe Dedicated Source			X	X	X	X	X	

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Object Name	Object Type	Inst Num	Units	Default	Range	BACnet Writable	Description	State Text		Applicable Configurations						
								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll
HeaderMode_c	Multi State Value	501	--	8	1 - 8	in1,in8,in16	Header rack operating mode selection. The use of either AV:568 or MSV:501 is determined by the setting of BV:511. If BV:511 is set to Enumerated or True then MSV:501 is used, and the valid values are: 1 = Off with Isolation valves open 2 = Cooling only 3 = Heating only 4 = Auto full building 5 = Full building 6 = Primary cooling 7 = Primary heating 8 = System off							X	X	X
ColdWaterSelect_c	Multi State Value	502	--	1	1 - 4	in1,in8,in16	Selection of cold water control temperature for header rack applications. Possible values are: 1 = Heat Exchanger Out 2 = Cold Water Out 3 = Cold Water In 4 = Network (AV:506)							X	X	X
HotWaterSelect_c	Multi State Value	503	--	1	1 - 4	in1,in8,in16	Selection of hot water control temperature for header rack applications. Possible values are: 1 = Heat Exchanger Out 2 = Hot Water Out 3 = Hot Water In 4 = Network (AV:507)							X	X	X
LeadLagEnable_c	Binary Value	0	--	Enabled	--	in1,in8,in16	Selection of Enabling (True) or Disabling (False) of compressor lead lag operation by internal compressor control logic	Disabled	Enabled	X	X	X	X	X	X	X
Mode_c	Binary Value	1	--	Cool	--	in1,in8,in16	Selection of current operating mode for non header rack applications. Options are Cool (False) and Heat (True).	Cool	Heat	X	X	X	X			
EmShutdown_c	Binary Value	2	--	Normal	--	in1,in8,in16	Enable (True) or Disable (False) Emergency Shutdown	Normal	Shutdown	X	X	X	X	X	X	X
LoadShedB_c	Binary Value	3	--	Inactive	--	in1,in8,in16	Enable (True) or Disable (False) Load Shed on Compressor B	Inactive	Active	X	X	X	X	X	X	X
LoadShedA_c	Binary Value	4	--	Inactive	--	in1,in8,in16	Enable (True) or Disable (False) Load Shed on Compressor A	Inactive	Active	X	X	X	X	X	X	X

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Object Name	Object Type	Inst Num	Units	Default	Range	BACnet Writable	Description	State Text		Applicable Configurations							
								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	
EnableManualOverride_c	Binary Value	5	--	Disabled	--	in1,in8,in16	Enable (True) or Disable (False) Manual Override of Y1, Y2, O/B logic outputs	Disabled	Enabled	X	X	X	X	X	X	X	
ABCA_Y1Override_c	Binary Value	6	--	Off	--	in1,in8,in16	Manual Override for Comp A. This point takes priority over all other compressor control logic when BV:5 is set to "Enable", but does not stop the other control logic from operating.	Off	On	X	X	X	X	X	X	X	
ABCB_Y1Override_c	Binary Value	7	--	Off	--	in1,in8,in16	Manual Override for Comp B. This point takes priority over all other compressor control logic when BV:5 is set to "Enable", but does not stop the other control logic from operating.	Off	On	X	X	X	X	X	X	X	
ABC_OBOverride_c	Binary Value	8	--	Cool	--	in1,in8,in16	Manual Override for Reversing Valve. This point takes priority over all other control logic when BV:5 is set to "Enable", but does not stop the other control logic from operating.	Cool	Heat	X	X	X	X	X	X	X	
TestModeCommand_c	Binary Value	9	--	Normal	--	in1,in8,in16	Enable (True) or Disable (False) the test mode of the Aurora control system.	Normal	Test Mode	X	X	X	X	X	X	X	
PowerPhaseSelect_c	Binary Value	10	--	Three Phase	--	in1,in8,in16	Select Single (False) or Three (True) Phase power for Aurora control system power calculations.	Single Phase	Three Phase	X	X	X	X	X	X	X	
ABCA_HDW_ALM_st	Binary Value	11	--	--	--	no	Status of ABC A alarm output	Off	On	X	X	X	X	X	X	X	
ABCA_HDW_Y1_st	Binary Value	12	--	--	--	no	Status of ABC A physical Y1 input	Off	On	X	X	X	X	X	X	X	
ABCA_HDW_Y2_st	Binary Value	13	--	--	--	no	Status of ABC A physical Y2 input	Off	On	X	X	X	X	X	X	X	
ABCA_HDW_OB_st	Binary Value	14	--	--	--	no	Status of ABC A physical O/B input	Off	On	X	X	X	X	X	X	X	
ABCA_HDW_ES_st	Binary Value	15	--	--	--	no	Status of ABC A physical emergency shutdown input	Normal	Shutdown	X	X	X	X	X	X	X	
ABCA_HDW_LPS_st	Binary Value	16	--	--	--	no	Status of ABC A physical low pressure switch input	Open	Closed	X	X	X	X	X	X	X	
ABCA_HDW_HPS_st	Binary Value	17	--	--	--	no	Status of ABC A physical high pressure switch input	Open	Closed	X	X	X	X	X	X	X	
ABCA_HDW_LS_st	Binary Value	18	--	--	--	no	Status of ABC A physical load shed input	Inactive	Active	X	X	X	X	X	X	X	
ABCA_HDW_CC_st	Binary Value	19	--	--	--	no	Status of ABC A compressor output	Off	On	X	X	X	X	X	X	X	
ABCA_HDW_RV_st	Binary Value	20	--	--	--	no	Status of ABC A reversing valve output	Off	On	X	X	X	X	X	X	X	
ABCA_HDW_ACC_st	Binary Value	21	--	--	--	no	Status of ABC A accessory relay output	Off	On	X	X	X	X	X	X	X	
ABCB_HDW_ALM_st	Binary Value	22	--	--	--	no	Status of ABC B alarm output	Off	On	X	X	X	X	X	X	X	
ABCB_HDW_Y1_st	Binary Value	23	--	--	--	no	Status of ABC B physical Y1 input	Off	On	X	X	X	X	X	X	X	
ABCB_HDW_Y2_st	Binary Value	24	--	--	--	no	Status of ABC B physical Y2 input	Off	On	X	X	X	X	X	X	X	

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Object Name	Object Type	Inst Num	Units	Default	Range	BACnet Writable	Description	State Text		Applicable Configurations							
								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll
ABCB_HDW_OB_st	Binary Value	25	--	--	--	no	Status of ABC B physical O/B input	Off	On	X	X	X	X	X	X	X	
ABCB_HDW_ES_st	Binary Value	26	--	--	--	no	Status of ABC B physical emergency shutdown input	Normal	Shutdown	X	X	X	X	X	X	X	
ABCB_HDW_LPS_st	Binary Value	27	--	--	--	no	Status of ABC B physical low pressure switch input	Open	Closed	X	X	X	X	X	X	X	
ABCB_HDW_HPS_st	Binary Value	28	--	--	--	no	Status of ABC B physical high pressure switch input	Open	Closed	X	X	X	X	X	X	X	
ABCB_HDW_LS_st	Binary Value	29	--	--	--	no	Status of ABC B physical load shed input	Inactive	Active	X	X	X	X	X	X	X	
ABCB_HDW_CC_st	Binary Value	30	--	--	--	no	Status of ABC B compressor output	Off	On	X	X	X	X	X	X	X	
ABCB_HDW_RV_st	Binary Value	31	--	--	--	no	Status of ABC B reversing valve output	Off	On	X	X	X	X	X	X	X	
ABCB_HDW_ACC_st	Binary Value	32	--	--	--	no	Status of ABC B accessory relay output	Off	On	X	X	X	X	X	X	X	
AlarmReset_c	Binary Value	33	--	Normal	--	in1,in8,in16	Alarm reset command to clear lockout condition. This point should always be cleared after the lockout condition is no longer present	Normal	Reset	X	X	X	X	X	X	X	
NetworkY2Command_c	Binary Value	34	--	Off	--	in1,in8,in16	Network command for compressor B when system is configured for Network control using MSV:2	Off	On	X	X	X	X				
NetworkY1Command_c	Binary Value	35	--	Off	--	in1,in8,in16	Network command for compressor A when system is configured for Network control using MSV:2	Off	On	X	X	X	X				
NetworkControl_c	Binary Value	36	--	Normal	--	in1,in8,in16	Indication that system is under network control. This value should be set by BAS because when system is under network control many local commands and settings will not work.	Normal	Network	X	X	X	X	X	X	X	
SystemEnable_c	Binary Value	37	--	Enabled	--	in1,in8,in16	Enables (True) or Disables (False) system operation. When this setting is disabled the compressor outputs will not be activated except for manual override operation.	Disabled	Enabled		X	X	X	X	X	X	
CompASourceFlowSw_st	Binary Value	38	--	--	--	no	Status of source loop flow switch for compressor A (On = flow, Off = No Flow)	Off	On		X	X	X	X	X	X	
CompALoadFlowSw_st	Binary Value	39	--	--	--	no	Status of load loop flow switch for compressor A (On = flow, Off = No Flow)	Off	On		X	X	X	X	X	X	
CompBSourceFlowSw_st	Binary Value	40	--	--	--	no	Status of source loop flow switch for compressor B (On = flow, Off = No Flow)	Off	On		X	X	X	X	X	X	

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Object Name	Object Type	Inst Num	Units	Default	Range	BACnet Writable	Description	State Text		Applicable Configurations						
								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll
CompBLoadFlowSw_st	Binary Value	41	--	--	--	no	Status of load loop flow switch for compressor B (On = flow, Off = No Flow)	Off	On		X	X	X	X	X	X
SystemControl_c	Binary Value	500	--	Setpoint	--	in1,in8,in16	Selection between Setpoint (False) and AquaStat (True) control for some header rack applications.	Setpoint	Aquastat					X		X
NetBypassCtrl_c	Binary Value	501	--	Inactive	--	in1,in8,in16	Selection between local (Inactive or False) and network (Active or True) control of bypass valves	Inactive	Active						X	
HeaderRackManCtrl_c	Binary Value	502	--	Inactive	--	in1,in8,in16	Selection between normal (Inactive or False) and manual (Active or True) control of header rack valves. NOTE: When manual valve control is activated ALL valve will operate based on manual control settings.	Inactive	Active					X	X	X
GeoWaterSelect_c	Binary Value	503	--	Local	--	in1,in8,in16	Selection between Local (False) and Network (True) geothermal loop temperature values.	Local	Network					X	X	
HeaderY1output_st	Binary Value	504	--	--	--	no	Status of header rack Y1 compressor demand logical output	FALSE	TRUE					X	X	X
HeaderY2output_st	Binary Value	505	--	--	--	no	Status of header rack Y2 compressor demand logical output	FALSE	TRUE					X	X	X
HeaderHeatOutput_st	Binary Value	506	--	--	--	no	Status of header rack heat/cool B demand logical output	FALSE	TRUE					X	X	X
CWSensorFault_st	Binary Value	507	--	--	--	no	Indication that the currently selected cold water control temperature is invalid.	FALSE	TRUE					X	X	X
HWSensorFault_st	Binary Value	508	--	--	--	no	Indication that the currently selected hot water control temperature is invalid.	FALSE	TRUE					X	X	X
TempSensorFault_st	Binary Value	509	--	--	--	no	Indication that either the currently selected cold water control temperature or currently selected hot water control temperature is invalid.	FALSE	TRUE					X	X	X
ManIsoValves_c	Binary Value	510	--	Inactive	--	in1,in8,in16	Manual control value for isolation valves. The manual control value is used when BV:502 is Active, and the manual control value is higher priority and will override the position determined by normal control logic	Inactive	Active					X	X	X

BACnet Points for HydroLink for NXW/SKW

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Object Name	Object Type	Inst Num	Units	Default	Range	BACnet Writable	Description	State Text		Applicable Configurations						
								Inactive = 0	Active = 1	NXW - Dual Scroll HYDWWB01_01	NXW - Dual Scroll HYDWWB01_02	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll	WCHDM - Dual Scroll
HeaderModeSelect_c	Binary Value	511	--	numerate	--	in1,in8,in16	Selection between Numeric (False) and Enumerated (True) BACnet control value for header rack operating mode selection. When set to Numeric AV:568 will determine the operating mode and when set to Enumerated MSV:501 will determine the operating mdoe.	Enumerated	Numeric					X	X	X

