BACnet Points for Versatec Water to Water PROSSWW-03

BACnet Points For WaterFurnace Versatec Single Compressor Water-to-Water units

The network variables will be listed by point type instance convention. 2:1 would mean point type 2, point instance 1. All volatile (Output) type points will revert to the uncommanded values after a power interruption. These have no limit on the number of writes in a lifetime. The nonvolatile (Value) type points have their values stored in flash memory and they retain their values through a power outage. These have a limited life-time number of write cycles, about 2,000,000.

Analog Input (Type 0)

0:1	Source Frz Temp	[Read, shows the refrigerant temperature entering the Source heat exchanger for low temperature protection.]
0:2	Load Frz Temp	[Read, shows the refrigerant temperature entering the Load heat exchanger for low temperature protection.]
0:3	Load EWT	[Read, shows the entering water temperature of the load-side heat exchangers.]
0:4	Load LWT	[Read, shows the leaving water temperature of the load-side heat exchanger.]
0:5	Source EWT	[Read, shows the entering water temperature of the source-side heat exchangers.]
0:6	Source LWT	[Read, shows the leaving water temperature of the source-side heat exchanger.]
0:7	Load Freeze Setpt	[Read, shows the low temp limit of the refrigerant Temp sensor on load side]
0:8	Src Freeze Setpt	[Read, shows the low temp limit of the refrigerant Temp sensor on source side]
0:9	Alarms Enumerated	[1=Load Flow Fault; 2=Compressor 1 Low Pressure; 3=Compressor 1 Source freeze; 4=Compressor 1 Load Freeze; 5=Source Flow fault; 6=Compressor 1 Hi Pressure; 7=Compressor 1 Bad Source freeze Sensor; 8=Compressor 1 Bad Load Freeze Sensor]

Binary Inputs (Type 3)

3:1	Compressor 1 Output	[Read, shows the commanded value of the compressor, Inactive = OFF, Active = ON]
3:2	RV 1 Output	[Read, shows the commanded value of the reversing valve, Inactive = heating, Active = cooling]
3:3	Accessory 1 Output	[Read, shows the value of the X1 (Accessory1) output, Inactive = OFF, Active = ON]
3:4	Accessory 2 Output	[Read, shows the value of the X2 (Accessory2) output, Inactive = OFF, Active = ON]

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3:6	Alarm Output	[Read, shows the value of the L (Alarm) output, Inactive = OFF, Active = ON]
3:7	LoadFlow	[Read, shows the contact status of the load flow switch input, Inactive = OFF, Active = ON]
3:8	SrcFlow	[Read, shows the contact status of the source flow switch input, Inactive = OFF, Active = ON]

Multistate Input (Type 13)

13:1	Mode of Operation	[Read, shows the unit status for normal operation or Emergency shutdown. 1=Auto, 7=Emergency shutdown.]

Multistate Output (Type 14) *These are volatile memory and allow unlimited writes.*

14:1	Emergency Override	[Read/Write, provide quick shutdown of all binary outputs on the FX10. Compressor minimum run timers are over-ridden. This is a volatile point.]
14:2	Compressor 1 Enable	[Read/Write, Control compressor (Y1), 1=OFF, 2=ON. This is a volatile point.]
14:3	Valve Enable	[Read/Write, Control reversing valve (O), 1=Heating, 2=Cooling. This is a volatile point.]
14:4	Application Mode	[Recommend DO NOT USE]
14:5	Heat Cool Mode	[Recommend DO NOT USE]
14:6	Alarm Reset	[Read/Write, allows remote reset of manual reset alarms, Command to a ‘2’ value for reset action, 1 for normal Operation. This is a volatile point.]

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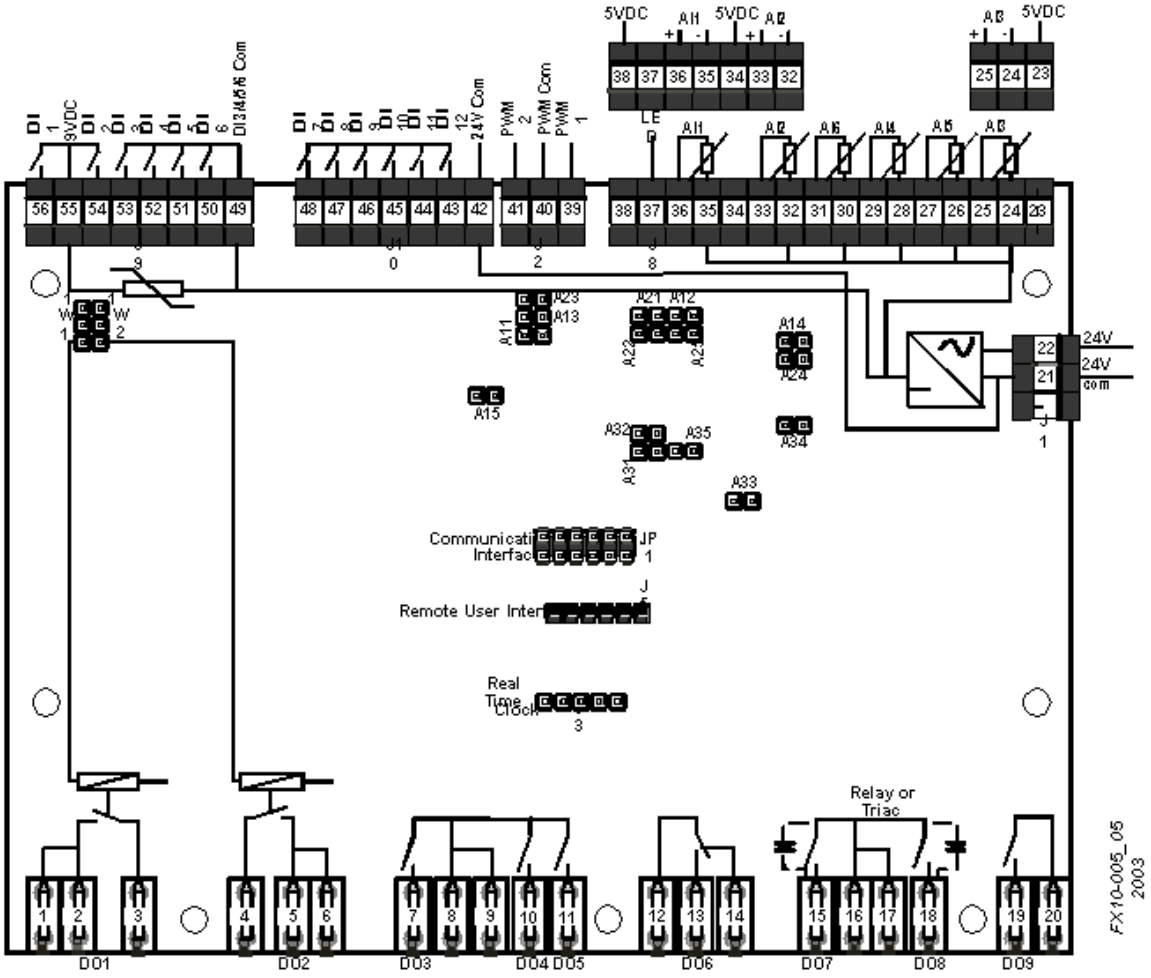

Physical I/O Assignment

The asterisk * denotes a point that is integral to the heatpump control algorithms.

Channel	Name	Pin Number	Type
AI1*	Entering Load Water Temperature Sensor (AI1)	36	A99
AI2*	Leaving Load Water Temperature Sensor (AI2)	33	A99
AI3*	Entering Source Water Temperature Sensor (AI3)	25	A99
AI4*	Source Freeze Protection 1 Temperature Sensor (AI4)	29	A99

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AI5*	Load Freeze Protection 1 Temperature Sensor (AI5)	27	A99
AI6*	Leaving Source Water Temperature Sensor (AI6)	31	A99
DI1*	Load Flow Proving Switch (BI1)	56	Binary
DI2*	Emergency Shutdown (BI2)	54	Binary
DI3*	1st Stage Low Pressure Switch (BI3)	53	Binary
DI4	Source Freeze Protection Setpoint Selection (BI4)	52	Binary
DI5	Load Freeze Protection Setpoint Selection (BI5)	51	Binary
DI6*	Compressor Proving Switch (BI6)	50	Binary
DI7*	Y1 Compressor Command (BI7)	48	Binary
DI8*	Source Flow Proving Switch (BI8)	47	Binary
DI9	O Reversing Valve Command (BI9)	46	Binary
DI11*	1st Stage High Pressure Switch (BI11)	44	Binary
DO2*	1st Stage Compressor Output (BO2)	4	Binary
DO3	Reversing Valve 1 Output (BO3)	7	Binary
DO6	Alarm Output (BO6)	13	Binary
DO7	Accessory Output 1 (BO7)	15	Binary
DO8	Accessory Output 2 (BO8)	18	Binary

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