VAL DHP-40 DOAS #2

18VA 24V Center Tapped

30VA 24V

ng MF88AO Board

Inputs Address #7

1	
2	Outside temp (Pre-TdAlm AI1)
3	Pre-Cool LAT 1 Temp (Pre-TdAlm AI3) (Pre-Stg1 AI3) (Pre-Stg2 AI3)
4	Pre-Cool LAT 2 Temp (Pre-TdAlm AI4) (Pre-Stg3 AI3) (Pre-Stg4 AI3)
5	DH Wheel LAT Temp (Pre-TdAlm AI2)
6	Space Temp (HeatCtrl AI6)
7	Space Dew (DhEnable AI6)
8	Space RH (DhEnable AI5)

Existing Outputs

Address#5 Output Board

1	Process Fan 1 & 2 (Fan/Dmpr DO3)
2	React Fan 1 & 2 (Pre-Cond DO1)
3	Pre-Cool condenser fan enable (Pre-Cond DO2)
4	Post-Cool condenser fan enable (PostCond DO1)
5	Pre-Cool Compressor #1 (Pre-Stg1 DO2)
6	Pre-Cool Compressor #2 (Pre-Stg2 DO2)
7	Post-Cool Compressor #1 (PostStg1 DO2)
8	

Analog Output

1	Process Fan Speed 1 & 2 (Fan/Dmpr AO1)
2	React Fan Speed 1 & 2 (ReactPID Output)
3	Pre-Cool Condenser Fan Speed (Pre-PID Output)
4	Post-Cool Condenser Fan Speed (PostPID Output)

Existing 16AI Board

Address #8

1	Building Pressure (Status AI5)
2	
3	React In Temp (DhwCtrl AI4)(Pre-Cond AI5)
4	React Out Temp (DhwCtrl AI5)
5	React Filter Diff Pressure (DhwCtrl AI6)
6	Pre-Cool Filter Diff Pressure (Fan/Dmpr AI1)
7	Wheel Diff Pressure (DhwCtrl AI7)
8	Supply Temp (HeatCtrl AI3)(PostStg1 AI3)(PostStg2 AI3)
9	Return Air Temp (Pre-TdAlm AI6)
10	React fan proof switch (Pre-Cond DI4)
11	Main Power Loss Relay (Enable DI4)
12	Service Access Door Switch Lockout (Enable DI2)
13	Supply and Return Smoke detector (Enable DI3)
14	Pre-Cool Coil Pan Overflow Switch (Enable DI1)
15	Pre-Condenser Fan phase loss(Pre-Cond DI6)
16	Supply fan proof switch (Fan/Dmpr DI4)

88AO Board

Address #11

1	OA Damper FB (Fan/Dmpr AI2)
2	Return Damper FB (Fan/Dmpr AI3)
3	Condenser #1 Damper FB (CondDmpr AI1)
4	
5	
6	
7	Process Air Dirty Filter Switch (Fan/Dmpr DI6)
8	React Air Dirty Filter Switch (DhwCtrl DI6)

Output Board Address# 7

1	Heater (HeatCtrl DO2)
2	Desiccant Wheel Start(NO) (DhwCtrl DO1)
3	Bypass Damper (DhwCtrl DO6)
4	Condenser #1Damper (CondDmpr DO2)
5	
6	
7	
8	

Analog Output

1	Heater % (HeatCtrl AO1)
2	OA Damper % (Fan/Dmpr AO2)
3	Return Damper % (Fan/Dmpr AO3)
4	

16AI Board

Address #12

1	Pre-Cool Compressor #1 Current Switch
2	Pre-Cool Compressor #2 Current Switch
3	Post-Cool Compressor#1 current switch (PostStg1 DI2)(PostStg2 DI5)
4	Pre-Cool Compressor #1 LP Transducer (Pre-Stg1 AI2)
5	Pre-Cool Compressor #2 LP Transducer (Pre-Stg2 AI2)
6	Post-Cool Compressor #1 LP transducer (PostStg1 AI2)
7	Pre-Cool Compressor #1 HP Transducer (Pre-Stg1 AI1)
8	Pre-Cool Compressor #2 HP Transducer (Pre-Stg2 AI1)
9	Post-Cool Compressor #1 HP transducer (PostStg1 AI1)
10	
11	Post Condenser Fan phase loss (PostCond DI4)
12	Desiccant Wheel Moving Switch (DhwCtrl DI3)
13	Desiccant Wheel Starter Aux (DhwCtrl DI4)
14	Bypass Damper Closed (DhwCtrl DI7)
15	Bypass Damper Open (DhwCtrl DI8)
16	Post-Cool pan overflow switch (Enable DI7)