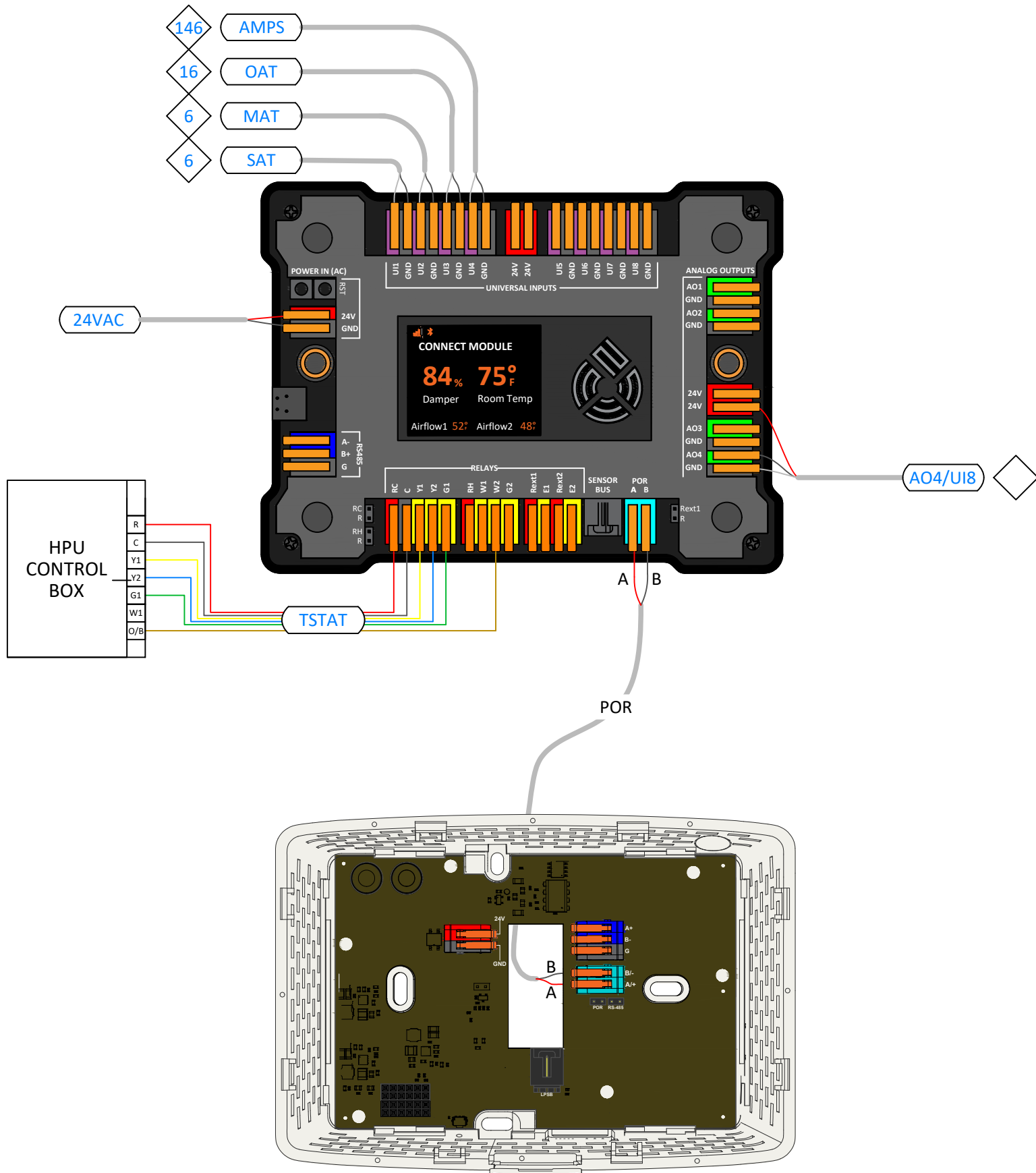




HYPERSTAT SPLIT - CONNECT MODULE					
DESCRIPTION	POINT	TAG	DEVICE RANGE	MFG	PART #
SUPPLY AIR TEMPERATURE	UI1	SAT	°F (10K TYPE II)		
MIXED AIR TEMPERATURE	UI2	MAT	°F (10K TYPE II)		
OUTDOOR AIR TEMPERATURE	UI3	OAT	°F (10K TYPE II)		
CURRENT TX (0-50A)	UI4	AMPS	0-10V = 0-50 AMPS		
24VAC R (FOR UI)	R	24V	24VAC	-	
24VAC R (FOR UI)	R	24V	24VAC	-	
SPARE	UI5		10K TYPE II / 0-10V / 4-20mA		
SPARE	UI6		10K TYPE II / 0-10V / 4-20mA	-	
SPARE	UI7		10K TYPE II / 0-10V / 4-20mA		
SPARE	UI8		10K TYPE II / 0-10V / 4-20mA		
SPARE	AO1		0-10VDC / 4-20mA		
SPARE	AO2		0-10VDC / 4-20mA		
24VAC R (FOR AO)	R	24V	24VAC	-	
24VAC R (FOR AO)	R	24V	24VAC	-	
SPARE	AO3		0-10VDC / 4-20mA		
SPARE	AO4		0-10VDC / 4-20mA		
COMPRESSOR STAGE 1	BO1 (Y1)	TSTAT	CC = ENABLE	-	
COMPRESSOR STAGE 2	BO2 (Y2)	TSTAT	CC = ENABLE	-	
SUPPLY FAN	BO3 (G)	TSTAT	CC = ENABLE	-	
SPARE	BO4 (W1)		WET CONTACT	-	
REVERSING VALVE	BO5 (W2)	TSTAT	CC = ENABLE	-	
SPARE	BO6 (G2)		WET CONTACT		
SPARE	BO7 (E1)		WET CONTACT		
SPARE	BO8 (E2)		WET CONTACT		
POWER IN	RC	24V	24VAC (FROM UNIT)	-	
SPARE	RTS		3-PIN CABLE (NO LOCAL INTERFACE)		
ROOM TEMP, RH, OCC'S, LIGHT, SOUND, VOC, CO2, & INTERFACE	HL	POR	2-WIRE POWER & COMM.	CARRIER	
SPARE	OWI	OWI	ONE WIRE INTERFACE (OWI)		
SPARE	RS485	RS485	RS485		

HYPERSTAT SPLIT - HYPERLITE					
DESCRIPTION	POINT	TAG	DEVICE RANGE	MFG	PART #
UNUSED	R	24V	24VAC		
HYPERLITE	HL	POR	2-WIRE POWER & COMM.	CARRIER	7C-HS-C13W-X
SPARE	RS485	RS485	RS485		
ROOM TEMP, RH, OCC, & CO2	MS	RTH	3-PIN CABLE (NO LOCAL INTERFACE)	CARRIER	7C-SE-C72X-X

Drawing Notes:

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Project Name:

SAMPLE PROJECT
REV. 0

Project Address:

ADDRESS
CITY, STATE ZIP

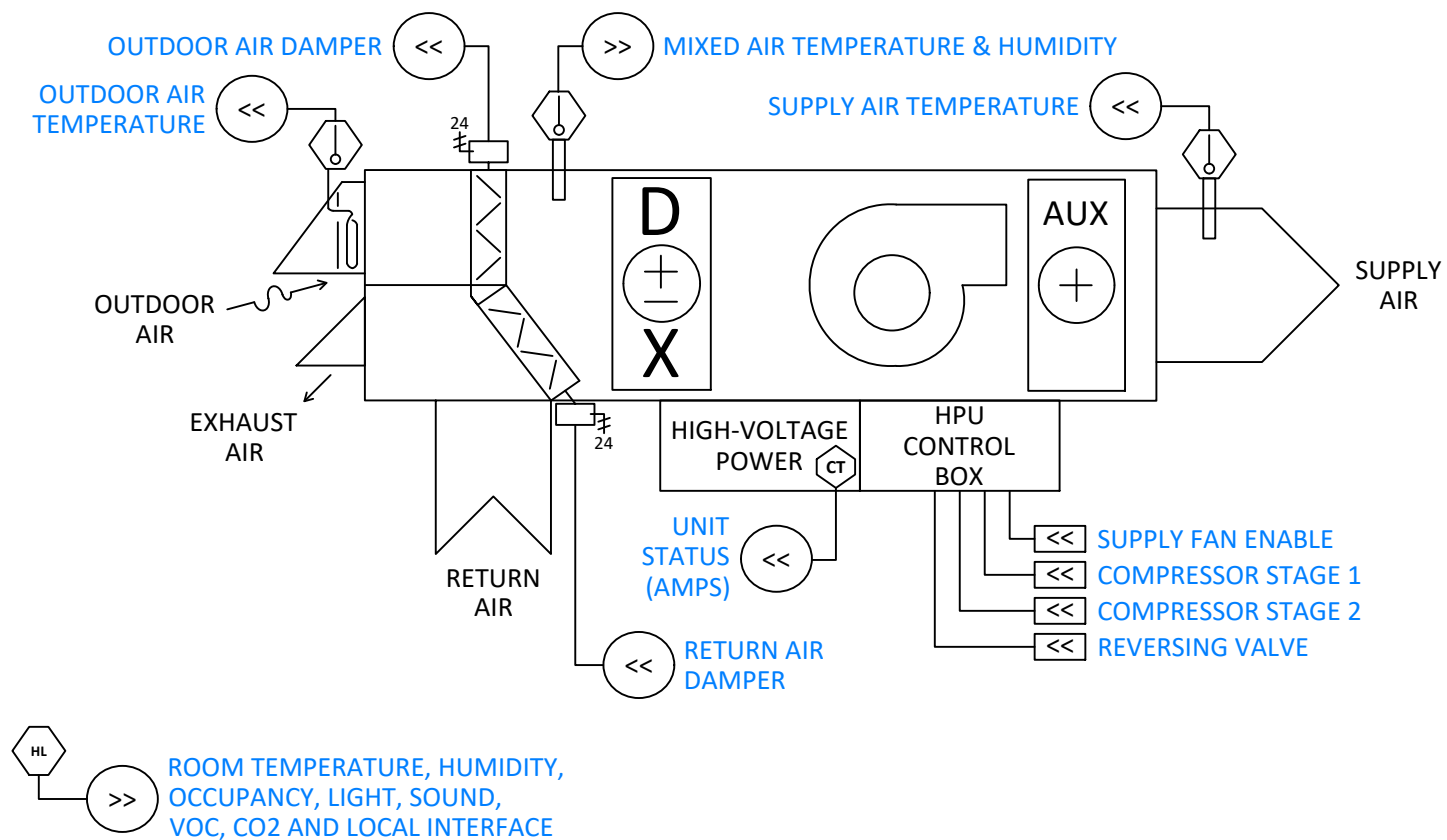
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Drawing: HYPERSTAT SPLIT HPU (PHYSICAL)



THE HPUS WILL USE THE DIFFERENCE BETWEEN THE CURRENT TEMPERATURE AND THE DESIRED TEMPERATURE FOR LOAD CALCULATIONS.

HEATING/ COOLING

1. WHEN OCCUPANCY BEGINS, THE UNIT WILL START THE SUPPLY FAN.
2. AS DEMAND FOR COOLING INCREASES, ASSUMING ECONOMIZER IS UNAVAILABLE, THE COOLING STAGES WILL STEP UP. WHEN THE DELTA T IS 2°F, BOTH STAGES OF COOLING WILL BE RUNNING. ON UNITS WITH A SINGLE STAGE OF COOLING ONLY ONE STAGE WILL BE ENABLED.
3. AS DEMAND FOR HEATING INCREASES, THE HEATING STAGES WILL STEP UP. WHEN THE DELTA T IS 2°F, BOTH STAGES OF HEATING WILL BE RUNNING. ON UNITS WITH A SINGLE STAGE OF HEATING ONLY ONE STAGE WILL BE ENABLED.

ECONOMIZING

4. FREE COOLING WILL BE AVAILABLE WHENEVER INDOOR AIR ENTHALPY IS GREATER THAN OUTDOOR AIR ENTHALPY.
5. IF FREE COOLING IS AVAILABLE AND THERE IS COOLING DEMAND, THE OUTDOOR AIR DAMPER WILL MODULATE OPEN UNTIL IT REACHES 100% OR THE MIXED AIR TEMPERATURE FALLS BELOW 50°F. IF THE MIXED AIR TEMPERATURE FALLS BELOW 44°F, THE OUTDOOR AIR DAMPER WILL CLOSE TO MINIMUM POSITION.
6. IF THE OUTDOOR AIR DAMPER IS FULLY OPEN FOR 15 MINUTES AND THE COOLING LOAD DOES NOT DECREASE BY AT LEAST 30% OVER THAT TIME, MECHANICAL COOLING WILL BE ENABLED (SUBJECT TO A MINIMUM OUTDOOR AIR TEMPERATURE LOCKOUT).

DEMAND CONTROL VENTILATION

7. WHEN THE RETURN AIR CO2 IS 1000PPM OR GREATER, A MINIMUM OUTDOOR AIR DAMPER POSITION WILL APPLY. THE MINIMUM POSITION WILL INCREASE BY 10% FOR EVERY 100PPM ABOVE THE THRESHOLD (E.G. 10% AT 1100PPM, 100% AT 2000PPM).

75F COMMISSIONING NOTES:

- SYSTEM PROFILE WILL BE SET TO "HYPERSTAT SPLIT - CONVENTIONAL PACKAGE UNIT AND ECONOMIZER".
 - ENABLE AND CONFIGURE THE UNIVERSAL INPUTS AND OUTPUTS PER THE TABLE BELOW :
- | | | |
|------|--|-------------------------------------|
| -- | SENSOR BUS : | |
| --- | NO CHANGES | |
| -- | HS CONNECT : | |
| --- | RELAY 1 = COOLING STAGE 1 (COMPRESSOR STAGE 1) | |
| --- | RELAY 2 = COOLING STAGE 2 (COMPRESSOR STAGE 2) | |
| --- | RELAY 3 = FAN LOW SPEED (SUPPLY FAN ENABLE) | |
| --- | RELAY 5 = COOLING STAGE 1 (REVERSING VALVE) | |
| ---- | NOTE: SET AS HEATING STAGE 1 IF REVERSING VALVE IS POWERED FOR HEATING | |
| --- | ANALOG-OUT4 = OUTDOOR AIR DAMPER | |
| --- | UNIVERSAL-IN1 = SUPPLY AIR TEMPERATURE | |
| --- | UNIVERSAL-IN2 = MIXED AIR TEMPERATURE | |
| --- | UNIVERSAL-IN3 = OUTSIDE AIR TEMPERATURE | |
| --- | UNIVERSAL-IN4 = CURRENT TX (0-50A) | |
| -- | CO2 SETTINGS | |
| --- | ANALOG-OUT4 AT MIN OAO DAMPER = 2V | ANALOG-OUT4 AT MAX OAO DAMPER = 10V |
| --- | CO2 DAMPER OPENING RATE = 10% | CO2 THRESHOLD = 800 PPM |
| --- | CO2 TARGET = 1000 PPM | |
| -- | DISPLAY IN DEVICE HOME SCREEN | |
| --- | HUMIDITY = ON | CO2 = OFF |
| --- | VOC = OFF | PM2.5 = OFF |

Drawing Notes:

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Project Name: SAMPLE PROJECT REV. 0		
Project Address: ADDRESS CITY, STATE ZIP		
DB:	CB:	Page: 1 of 7
Drawing: HYPERSTAT SPLIT HPU (LOGICAL)		