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 FDP3-BMS AHU Control Strategy  
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Dip Switch Settings for Mode

SW1.1	SW1.2	
0	0	Full Capacity Control
1	0	Demand Level Control

Use Fixed Resistor on return air sensor to select RA=21C

Inputs

Input	Function	Input Value	Mode
S1	Demand	0 - 10 V	Demand Level Control
S3	Unit Heat/Cool	Open = COOL Closed = HEAT	Both
S5	Unit Run	Open = OFF Closed = RUN	Both

\*Note: Input Value is always between the respective input (S1, S2, S3) and the input "0V"

Full Capacity Control (S1 not in use)

- Cooling: setpoint = 18.
- Heating: setpoint = 29.

Demand Level Control

- Input S1 (0-10V): Demand Signal proportional to compressor speed using demand data.

Virtual Sensor Modbus Control

Point Name	Modbus Register	Range
VS1(name = DEMAND)	Holding 13001	0..1500 = Duty 0..15*
VS3(name = HEAT_MODE)	Holding 13003	0 = COOL, 100 = HEAT*
VS5(name = UNIT_RUN)	Holding 13005	0 = OFF, 100 = RUN*

\* Values should be scaled by 1/100 if ModTool software used for adjustment