

FDP3-Modbus AHU Control Strategy

Dip Switch Settings for Mode

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

Modbus Registers

Point Name	Modbus Register	Range
C1 (name = DEMAND)	Holding 11001	0..1500 = Duty 0..15*
C2 (name = HEAT_MODE)	Holding 11002	0 = COOL, 100 = HEAT*
C3 (name = UNIT_RUN)	Holding 11003	0 = OFF, 100 = RUN*

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

Full Capacity Control

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

Demand Level Control

- Input C1 0..1500 Demand Signal proportional to compressor speed using demand data.