

AIR-COOLED ROOF TOP UNITS

RTU CONTROLLER SHALL COMMUNICATE DIRECTLY TO THE BAS VIA BACNET COMMUNICATION PROTOCOL.

ALL RTU ZONE SETPOINTS FROM THE BAS ARE AS FOLLOWS

MARK	AREA SERVED	RTU ZONE SETPOINTS				NOTES
		COOLING SETPOINT (°F +0.5 FT)	HEATING SETPOINT (°F +0.5 FT)	UNOCCUPIED COOLING SETPOINT (°F +0.5 FT)	UNOCCUPIED HEATING SETPOINT (°F +0.5 FT)	
RTU 1	OGP STORAGE	24.7	67	78	63	
RTU 2	BAKERY/DELIPRODUCE	24.7	73	67	63	
RTU 3	GM STORAGE/PICKUP	24.7	76	67	63	
RTU 4	GM VESTIBULE	24.7	66	67	63	3
RTU 5	TELECOM	24.7	78	67	63	
RTU 6	TELECOM	24.7	76	67	63	
RTU 7	TELECOM	6AM-10PM	78	67	63	
RTU 8	TELECOM	6AM-10PM	78	67	63	
RTU 9	FRONT OFFICES/RESTROOMS	24.7	73	68	63	
RTU 10	UPC	24.7	73	N/A	73	N/A
RTU 11	COURTESY	24.7	75	68	63	
RTU 12	GM VESTIBULE	24.7	65	67	63	3
RTU 13	PHARMACY	6AM-10PM	73	67	63	1
RTU 14	OPTICAL SALES	6AM-10PM	76	67	63	
RTU 15	OPTICAL EXAM	6AM-10PM	76	67	63	
RTU 16	CHECKOUT	24.7	75	68	63	
RTU 17	CHECKOUT	24.7	75	68	63	
RTU 18	SALES	24.7	75	68	63	
RTU 19	GARDEN CENTER	24.7	75	68	63	
RTU 20	SALES	24.7	75	68	63	
RTU 21	SALES	24.7	75	68	63	
RTU 22	GARDEN CENTER	24.7	75	68	63	
RTU 23	STOCKROOM	24.7	76	67	63	55
RTU 24	SALES	24.7	75	68	63	
RTU 25	SALES	24.7	75	68	63	
RTU 26	SALES	24.7	75	68	63	
RTU 27	OGP STOCKROOM	24.7	76	67	63	55
RTU 28	STOCKROOM	24.7	76	67	63	
RTU 29	PHOTO LAB/RESTROOMS	24.7	73	68	63	
RTU 30	CORRIDOR	24.7	76	67	63	
RTU 31	TRAINING/REAR OFFICES	24.7	73	68	63	
RTU 32	BREAKROOM	24.7	73	68	63	
RTU 33	REAR OFFICES	24.7	76	67	63	
RTU 34	RECEIVING	24.7	76	67	63	
RTU 35	AUTO CENTER	24.7	75	68	63	

(1) SET PHARMACY RTU SENSOR TO ALLOW +/- 3 DEG F USER SPACE SETPOINT ADJUSTMENT
(2) ADJUSTMENTS TO SCHEDULE WILL NEED TO BE MADE IF THE STORE IS NOT OPEN 24/7
(3) VESTIBULE RTU OPERATION SHALL BE LOCKED OUT BETWEEN 40°F AND 65°F AMBIENT.

DEHUMIDIFICATION OPERATION (FOR UNITS WITH HUMIDITY SETPOINT IN RTU ZONE SETPOINTS SCHEDULE)
WHEN THE SPACE HUMIDITY EXCEEDS SCHEDULED RH SETPOINT, THE OEM CONTROLLER SHALL ENERGIZE DEHUMIDIFICATION MODE. WHEN THE BELOW SCHEDULED RH SETPOINT MINUS INDOOR HUMIDITY DEADBAND, THE OEM CONTROLLER SHALL DE-ENERGIZE DEHUMIDIFICATION.

SUPPLY FAN OPERATION
FOR RTUS IDENTIFIED IN THE MECHANICAL SCHEDULE TO BE 'CONT' FAN CONTROL, THE BAS SHALL ENERGIZE THE SUPPLY FAN TO OPERATE CONTINUOUSLY IN ACCORDANCE WITH THE MECHANICAL SCHEDULE. THE OEM CONTROLLER SHALL ENERGIZE THE SUPPLY FAN TO OPERATE ONLY ON A CALL FOR HEATING OR COOLING.

FOR RTUS IDENTIFIED IN THE MECHANICAL SCHEDULE TO BE 'AUTO' FAN CONTROL, THE OEM CONTROLLER SHALL ENERGIZE THE SUPPLY FAN TO OPERATE ONLY ON A CALL FOR HEATING OR COOLING.

FOR RTUS WITH VARIABLE SPEED FAN OPERATION, THE FAN SPEED SHALL BE CONTROLLED BY THE OEM CONTROLLER BASED ON AMOUNT OF OPERATING COMPRESSOR CAPACITY. VARIABLE SPEED FAN CONTROL SHALL RANGE LINEARLY OR IN DISCRETE STAGES FROM MINIMUM SETTING UP TO DESIGN AIRFLOW AS DETERMINED BY OEM BASED ON CAPACITY CONTROL. SUPPLY FAN SPEED DURING ECONOMIZER OPERATION SHALL BE CONTROLLED BY THE OEM CONTROLLER AND SHALL BE AT DESIGN AIRFLOW FROM MECHANICAL SCHEDULE.

OUTSIDE AIR DAMPER OPERATION
WHEN THE SUPPLY FAN IS OFF, THE OUTSIDE AIR DAMPER SHALL GO TO THE 0% OPEN POSITION.
UNLESS OPERATING IN ECONOMIZER MODE, WHEN THE SUPPLY FAN IS ON THE OUTSIDE AIR DAMPER SHALL GO TO THE MINIMUM POSITION SET BY TEST AND BALANCE PER THE OUTSIDE AIR QUANTITY ON THE MECHANICAL SCHEDULE AND IS ADJUSTABLE FROM 0 TO 100%.

ECONOMIZER OPERATION
THE BAS SHALL SEND AN ECONOMIZER ENABLE SIGNAL TO THE OEM CONTROLLER WHEN BOTH OF THE FOLLOWING OUTSIDE AIR CONDITIONS ARE MET:
OUTSIDE DRY BULB TEMPERATURE > 0 DEG F AND < 48 DEG F
OUTSIDE DEWPOINT TEMPERATURE < 48 DEG F

ECONOMIZER COOLING OPERATION (ECONOMIZER ENABLED)
UPON AN ECONOMIZER ENABLE SIGNAL FROM THE BAS TO THE OEM CONTROLLER AND A CALL FOR COOLING BASED ON SPACE TEMPERATURE SENSOR INPUT TO THE OEM CONTROLLER, ECONOMIZER COOLING SHALL BE ENERGIZED AND THE OEM CONTROLLER SHALL MODULATE THE OUTSIDE AIR AND RETURN AIR DAMPERS TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 45 DF. THE UNIT SHALL RUN IN ECONOMIZER MODE FOR A MINIMUM OF 10 MINUTES AFTER THE ECONOMIZER DAMPER HAS MODULATED TO THE 100% OPEN POSITION BEFORE ENERGIZING THE FIRST STAGE MECHANICAL COOLING. THE OEM CONTROLLER SHALL DISABLE MECHANICAL COOLING WHEN OUTSIDE AIR TEMPERATURE FROM THE OEM OUTDOOR AIR SENSOR IS LESS THAN 45 DF.

IF THE SPACE TEMPERATURE INCREASES TO => 0.5 DEG ABOVE SPACE COOLING SETPOINT AND THE ECONOMIZER DAMPER HAS BEEN 100% OPEN FOR A MINIMUM OF 10 MINUTES, THE OEM CONTROLLER SHALL ENERGIZE FIRST STAGE MECHANICAL COOLING AND MAINTAIN THE OUTSIDE AIR DAMPER AT THE 100% OPEN POSITION.

IF THE SPACE TEMPERATURE CONTINUES TO INCREASE AFTER MECHANICAL COOLING IS ENERGIZED, THE OEM CONTROLLER SHALL CONTINUE TO ENERGIZE ADDITIONAL STAGES OF MECHANICAL COOLING IN 0.5 DEG F INCREMENTS OF SPACE TEMPERATURE, IF AVAILABLE.

IF THE CUTOUT TEMPERATURE FOR ANY STAGE OF COOLING IS NOT REACHED WITHIN 15 MINUTES, THE NEXT STAGE OF COOLING SHALL BE ENERGIZED TO SATISFY THE CUTOUT TEMPERATURE.

COOLING STAGES SHALL DE-ENERGIZE AS THE COMPRESSOR CUTOUT TEMPERATURES ARE SATISFIED IN 0.5 DEG INCREMENTS.

STAGE #	ON	OFF
1	SP-5	SP-5
2	SP+1.0	SP-5
3	SP+1.5	SP-5
4	SP+2.0	SP+1.0

COOLING OPERATION (ECONOMIZER DISABLED)
IF THERE IS NO ECONOMIZER ENABLE SIGNAL FROM THE BAS TO THE OEM CONTROLLER AND UPON A CALL FOR COOLING BASED ON THE SPACE TEMPERATURE SENSOR INPUT TO THE OEM CONTROLLER, THE OEM CONTROLLER SHALL ENERGIZE FIRST STAGE MECHANICAL COOLING AND MODULATE THE OUTSIDE AIR DAMPER TO THE MINIMUM POSITION.

IF THE SPACE TEMPERATURE CONTINUES TO INCREASE AFTER MECHANICAL COOLING IS ENERGIZED, THE OEM CONTROLLER SHALL CONTINUE TO ENERGIZE ADDITIONAL STAGES OF MECHANICAL COOLING IN 0.5 DEG INCREMENTS OF SPACE TEMPERATURE, IF AVAILABLE.

IF THE CUTOUT TEMPERATURE FOR ANY STAGE OF COOLING IS NOT REACHED WITHIN 15 MINUTES, THE NEXT STAGE OF COOLING SHALL BE ENERGIZED TO SATISFY THE CUTOUT TEMPERATURE.

COOLING STAGES SHALL DE-ENERGIZE AS THE COMPRESSOR CUTOUT TEMPERATURES ARE SATISFIED IN 0.5 DEG INCREMENTS.

STAGE #	ON	OFF
1	SP-5	SP-5
2	SP+1.0	SP-5
3	SP+1.5	SP-5
4	SP+2.0	SP+1.0

HEATING OPERATION
UPON A CALL FOR HEATING BASED ON THE SPACE TEMPERATURE SENSOR INPUT TO THE OEM CONTROLLER, THE OEM CONTROLLER SHALL ENERGIZE HEATING AND MODULATE THE OUTSIDE AIR DAMPER TO THE MINIMUM POSITION.

IF THE SPACE TEMPERATURE CONTINUES TO DECREASE AFTER HEATING IS ENERGIZED, THE OEM CONTROLLER SHALL CONTINUE TO ENERGIZE ADDITIONAL STAGES OF HEATING IN 0.5 DEG INCREMENTS OF SPACE TEMPERATURE, IF AVAILABLE.

IF THE CUTOUT TEMPERATURE FOR ANY STAGE OF HEATING IS NOT REACHED WITHIN 15 MINUTES, THE NEXT STAGE OF HEATING SHALL BE ENERGIZED TO SATISFY THE CUTOUT TEMPERATURE.

COOLING STAGES SHALL DE-ENERGIZE AS THE COMPRESSOR CUTOUT TEMPERATURES ARE SATISFIED IN 0.5 DEG INCREMENTS.

STAGE #	ON	OFF
1	SP-5	SP-5
2	SP+1.0	SP-5
3	SP+1.5	SP-5
4	SP+2.0	SP+1.0

DEMAND CONTROL VENTILATION

FOR UNITS SPECIFIED WITH OEM SPACE CO2 SENSORS, UPON EXCEEDING THE UPPER THRESHOLD LIMIT FOR SPACE CO2 LEVELS THE OEM CONTROLLER SHALL ENERGIZE THE RTU SUPPLY FAN TO DESIGN AIRFLOW AND OVERRIDE THE ECONOMIZER DAMPER TO THE 100% OPEN POSITION UNTIL THE SPACE CO2 LEVELS DROP TO THE LOWER THRESHOLD LIMIT AT WHICH TIME THE UNIT SHALL RESUME NORMAL OPERATION. OEM CONTROLLER SHALL ENERGIZE COOLING OR HEATING BASED ON SPACE TEMPERATURE DURING DEMAND CONTROL VENTILATION OPERATION.

DEMAND CONTROL VENTILATION	
DAMPER POSITION	CO2 LEVEL (PPM)
OPEN (MAX POSITION)	> 1100
CLOSED (MIN POSITION)	1000

SMOKE DETECTORS
FOR UNITS EQUIPPED WITH SMOKE DETECTORS (DUCT MOUNTED OR SPACE MOUNTED) THE SMOKE DETECTOR SHALL SHUT-DOWN THE UNIT UPON SMOKE DETECTOR ACTIVATION, IF REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION, UPON SMOKE DETECTOR ACTIVATION ADDITIONAL UNITS SHALL SHUT-DOWN UPON A SIGNAL FROM EITHER THE OWNER ALARM SYSTEM OR BAS TO THE OEM CONTROLLER. THE OEM CONTROLLER SHALL CLOSE THE OUTSIDE AIR DAMPER TO THE 0% OPEN POSITION, SHUT-DOWN ALL STAGES OF COOLING OR HEATING AND TURN OFF THE SUPPLY FAN. OEM CONTROLLER SHALL OVERRIDE ALL OTHER SPACE CONDITION DEMANDS WHEN UNIT HAS RECEIVED A SMOKE DETECTOR ACTIVATION ALARM.

RTU PROTECTION
ALL EQUIPMENT SAFETY SEQUENCES, I.E. COMPRESSOR RESET, GAS BURNER RESET, ETC. SHALL BE CONTROLLED BY THE OEM CONTROLLER.

ALARMS
THE RTU CONTROLLER SHALL COMMUNICATE ALL RTU ERROR CODES TO THE BAS. THE BAS SHALL GENERATE AND COMMUNICATE THE FOLLOWING ALARMS TO THE OWNER ALARM REPORTING PROGRAM (WARP).

RTU LOAD ALARM LIST			
ERROR CODE	FROM OEM CONTROLLER TO BAS	FROM BAS TO OWNER ALARM REPORTING PROGRAM (WARP)	BAS PRIORITY
4	SMOKE ALARM	YES	DAILY
5	AIR FLOW SWITCH	YES	DAILY
20	INPUT ERROR, PHASE LOSS OR VFD FAIL	YES	DAILY
74	ZONE SENSOR PROBLEM	YES	DAILY

THE BAS SHALL COMMUNICATE THE REQUIRED ALARM LIST TO THE OWNER ALARM REPORTING PROGRAM (WARP).

RTU MONITORING ALARM LIST			
DESCRIPTION	ALARM REPORTING PROGRAM (WARP)	BAS PRIORITY	ALARM LEVEL
SPACE TEMP-SALES FLOOR	YES	DAILY	SPACE TEMP -80 DF OR -82 DF FOR 60 MIN
SPACE TEMP-OFFICES	YES	DAILY	SPACE TEMP -80 DF OR -82 DF FOR 60 MIN
SPACE TEMP-PHARMACY & UPC	YES	DAILY	SPACE TEMP -80 DF OR -82 DF FOR 60 MIN
CO2 LEVEL	YES	DAILY	CO2 > 1400 PPM FOR 60 MIN

NOTE: ALARMS SHALL BE IDENTIFIED BY UNIT.

COMMUNICATION DATA POINT LIST
THE RTU CONTROLLER AND BAS SHALL TRANSFER THE COMMUNICATION DATA POINTS BASED ON THE FOLLOWING SCHEDULE.

LENNIX BACNET COMMUNICATION DATA POINT LIST			
OBJECT ID	OBJECT NAME	UNITS	
101	APPLICATION MODE CONTROL	NONE	DAILY
102	OUTDOOR AIR MIN POS CONTROL	PERCENT	DAILY
104	OCCUPANCY SCHEDULER CONTROL	NONE	DAILY
109	SPACE DEHUMIDIFICATION SETPT	PERCENT	DAILY
114	EMERGENCY OVERRIDE CONTROL	NONE	DAILY
129	SET ECONOMIZER OUTDOOR AIR SUITABLE	NONE	DAILY
130	HEATING OCCUPIED SETPOINT	DEG F	DAILY
131	COOLINGS OCCUPIED SETPOINT	DEG F	DAILY
132	HEATING UNOCCUPIED SETPOINT	DEG F	DAILY
133	COOLING UNOCCUPIED SETPOINT	DEG F	DAILY

OBJECT ID	OBJECT NAME	UNITS	
232	UNIT STATUS	NONE	DAILY
236	SPACE TEMPERATURE	DEG F	DAILY
240	DISCHARGE AIR TEMPERATURE	DEG F	DAILY
241	EFFECTIVE OCCUPANCY	NONE	DAILY
242	LOCAL SPACE TEMPERATURE	DEG F	DAILY
244	OUTSIDE AIR DAMPER	PERCENT	DAILY
245	HEAT PRIMARY	PERCENT	DAILY
247	COOL PRIMARY	PERCENT	DAILY
249	ECONOMIZER ENABLED	PERCENT	DAILY
250	SUPPLY FAN STATUS	PERCENT	DAILY
252	SPACE TEMPERATURE SETPT (EFF)	DEG F	DAILY
255	MOST RECENT ERROR 1	NONE	DAILY
259	MOST RECENT ERROR 2	NONE	DAILY
261	MOST RECENT ERROR 3	NONE	DAILY
264	MOST RECENT ERROR 4	NONE	DAILY
268	MOST RECENT ERROR 5	NONE	DAILY
274	SPACE CO2 SENSING (OFF)	PERCENT	DAILY
276	SPACE HUMIDITY (F)	PERCENT	DAILY
279	DEHUMIDIFICATION SETPT (EFF)	PERCENT	DAILY
281	RETURN AIR TEMPERATURE	DEG F	DAILY

SALES FLOOR LIGHT DIMMING CONTROL

THE BAS SHALL DIM THE GM & GROCERY SALES FLOOR LIGHTING BASED ON THE MEASURED NATURAL LIGHTING LEVEL IN FOOTCANDLES (FC) AT THE SALES FLOOR AS 5000 DAYLIGHT SENSOR, LOCATED IN A SALES FLOOR SKYLIGHT WELL. THE AS 5000 DAYLIGHT SENSOR PROVIDES A 4-20 mA SIGNAL BASED ON A FACTORY CALIBRATED RANGE OF 0 TO 500 FOOTCANDLES.

THE SALES FLOOR LIGHTING SHALL BE DIMMED IN RESPONSE TO AVAILABLE DAYLIGHT AS FOLLOWS:

SALES FLOOR DIMMING RANGE SETPOINTS			
DESCRIPTION	SKYLIGHT SENSOR INPUT	FIXTURE LIGHT OUTPUT	BAS CONTROL SETPOINT
MINIMUM DIMMING LEVEL	800 FC	90%	6 VOLT
MAXIMUM DIMMING LEVEL	1800 FC	10%	1 VOLT

BAS DIMMING SCHEDULES AND SETPOINTS				
PROGRAM NAME	AREA SERVED	BEGIN	END	SETPOINT
SALES FLOOR	GROCERY AND GM LIGHTING	10:00 PM	6:00 AM	7 VOLT
PERIMETER	PERIMETER SALES FLOOR LIGHTS	10:30 PM	6:00 AM	7 VOLT
PERIMETER	PERIMETER CUSTOMER SERVICE LIGHTING	6:00 AM	10:00 PM	9 VOLT
	PERIMETER CASE LIGHTING			

THE SALES FLOOR LIGHTING RAMP RATE

DESCRIPTION	RATE
MAX TO MIN BAS RAMP RATE	1 MINUTE

BAS INTERIOR SCHEDULED LIGHTING

BAS SCHEDULED LIGHTING ON/OFF TIMES			
PROGRAM NAME	AREA SERVED	ON	OFF
AUTO CENTER	AUTO CENTER TLE AREA	8:00 AM	10:00 PM
PERIMETER	PERIMETER SALES FLOOR LIGHTS	24 HR	
PHARMACY	PHARMACY LIGHTS	9:00 AM	10:00 PM
PHARMACY	PHARMACY SALES LIGHTS	24 HR	
PRODUCE	PRODUCE LIGHTS	24 HR	
FRZ CLR CASE	REFRIGERATED CASE LIGHTS	24 HR	
COFFIN CASE	COFFIN CASE LIGHTS	24 HR	
SERVICE DELI	SERVICE DELI LIGHTS	6:00 AM	10:00 PM
PICKUP CHECK-IN	PICKUP CHECK-IN LIGHTS	7:00 AM	11:00 PM

*COORDINATE ON/OFF TIMES WITH STORE MANAGER

BAS EXTERIOR LIGHTING

THE BAS SHALL CONTROL EXTERIOR LIGHTING VIA ASTRONOMICAL CLOCK. THE BAS SHALL ENERGIZE EXTERIOR LIGHTING 5 MINUTES BEFORE SUNSET AND 5 MINUTES AFTER SUNRISE.

BAS SCHEDULED EXTERIOR LIGHTING ENABLED TIMES			
PROGRAM NAME	AREA SERVED	ON	OFF
BLD FACADE LTS	ENTRY FACADE LIGHTING	4:00 PM	8:00 AM
	- FLAG POLE		
EXT GARDEN LTS	GARDEN CENTER OUTDOOR LIGHTS	4:00 PM	8:00 AM
	- GC BAG CLOTH AREA		
	- GC OUTSIDE BAG GOODS		
PICKUP CANOPY LTS	GROCERY / PHARMACY PICKUP CANOPY LIGHTING	4:00 PM	8:00 AM
BLD SEC LTS	BUILDING SECURITY LIGHTING	4:00 PM	8:00 AM
	- BUILDING BACK AND SIDE SECURITY LIGHTING		
	- TRUCKWELL LIGHTING		
	- BUILDING FRONT SECURITY LIGHTS		
PARKING LOT LTS	PARKING LOT LIGHTING	6:00 PM	8:00 AM
BLD SIGN LTS	BUILDING SIGNAGE	2:00 PM	8:00 AM
	- BUILDING TENANT SIGN		
	- BUILDING OWNER SIGN		
STORE SIGN	STORE ENTRANCE SIGN	2:00 PM	8:00 AM

LIGHTING CONTROL COMMUNICATIONS OPERATION

IF THE POWER SWITCHING PANEL LIGHT CONTROLLER RECEIVES A CONTACT CLOSURE FROM THE BAS INDICATING COMB LOSS, THE CONTROLLER SHALL ENERGIZE CONTROLLED LIGHTING TO THE ON STATE AFTER 5 MINUTE DELAY (ON), WHEN POWER IS RESTORED, LIGHTING SHALL REVERT TO SCHEDULED BAS LIGHTING. IN CASE OF COMB LOSS, THE SYSTEM LAYS CONTROLLED LIGHTING CONTACTORS, THE SYSTEM SHALL REVERT TO SCHEDULED BAS LIGHTING WHEN COMMUNICATION IS RESTORED.

THE BAS SHALL COMMUNICATE THE REQUIRED ALARM LIST TO THE OWNER ALARM REPORTING PROGRAM (WARP).

LIGHTING MONITORING ALARM LIST			
DESCRIPTION	ALARM REPORTING PROGRAM (WARP)	BAS PRIORITY	ALARM LEVEL
SPACE TEMP-SALES FLOOR	YES	DAILY	SPACE TEMP -85 DF OR -88 DF FOR 30 MIN
SPACE DEHUMIDIFICATION SETPT	YES	DAILY	SPACE DEHUMIDIFICATION SETPT -10 DF
SPACE DEWPOINT TEMP-GM SALES	YES	DAILY	SPACE DEWPOINT TEMP -80 DF FOR 30 MIN
AHU AMBIENT TEMP-SALES	YES	DAILY	ONE AHU AMBIENT DF OR DP +/- 5 DEG FROM OTHER AHUS FOR 60 MIN
CRITICAL AHU AMBIENT SENSOR ERROR	YES	DAILY	FROM OTHER AHUS FOR 60 MIN

NOTE: ALARMS SHALL BE IDENTIFIED BY UNIT.

COMMUNICATION DATA POINT LIST AND SETPOINTS
THE AHU CONTROLLER AND BAS SHALL TRANSFER THE COMMUNICATION DATA POINTS BASED ON THE FOLLOWING SCHEDULE.

MULTIPLER AHU COMMUNICATION DATA POINT LIST						
BACnet Address	R/W	Type	Direction	Description	Units	Initial Value
AV11	RW	ANL	input	Occupied Zone DH Setpoint	Temp F	52 F DP
AV12	RW	ANL	input	Zone DH Deadband	delta DP F	2 F
AV13	RW	ANL	input	Aux Dh Override Setpoint	DP F	49 F DP
AV15	RW	ANL	input	Occupied Zone Cool Setpoint	Temp F	79 F
AV16	W	ANL	output	Zone Temp Deadband	delta Temp F	2 F
AV21	RW	ANL	input	Amb Temp Std Heat Stage 1 Setpoint	Temp F	