

**AIR-COOLED ROOFTOP UNITS**

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

ALL RTU ZONE SETPOINTS FROM THE BAS ARE AS FOLLOWS

SPACE	OCCUPIED				UNOCCUPIED			
	(2) SCHEDULE	(2) COOLING SETPOINT	(2) HEATING SETPOINT	(2) COOLING SETPOINT	(2) HEATING SETPOINT	(2) COOLING SETPOINT	(2) HEATING SETPOINT	(2) COOLING SETPOINT
GM SALES	24/7	78 +/- 0.5	72 +/- 0.5	N/A	78 +/- 0.5	63 +/- 0.5		
GROCERY SALES	24/7	78 +/- 0.5	72 +/- 0.5	N/A	78 +/- 0.5	63 +/- 0.5		
RECVCYSTRM	24/7	78 +/- 0.5	67 +/- 0.5	N/A	78 +/- 0.5	63 +/- 0.5		
OFFICES	24/7	73 +/- 0.5	67 +/- 0.5	N/A	78 +/- 0.5	63 +/- 0.5		
UPC ROOM	24/7	73 +/- 0.5	67 +/- 0.5	N/A	73 +/- 0.5	63 +/- 0.5		
PHARMACY (1)	6 AM-10 PM	73 +/- 0.5	67 +/- 0.5	10 PM-AM	73 +/- 0.5	63 +/- 0.5		
VESTIBULE (3)	24/7	89 +/- 0.5	45 +/- 0.5	N/A	85 +/- 0.5	40 +/- 0.5		

(1) SET PHARMACY RTU SENSOR TO ALLOW +/- 3 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 89°F AMBIENT.

**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 OCCUPIED MODE ONLY. IN UNOCCUPIED MODE, 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 SETTINGS UP TO DESIGN AIRFLOW AS DETERMINED BY OEM BASED ON COMPRESSOR 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 >= 60 DEG F AND <= 68 DEG F  
OUTSIDE DEWPOINT TEMPERATURE < 48 DEG DP

**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 DEGREE INCREMENTS.

STAGE #	ON	OFF
ECONOMIZER	SP+1.0	SP-5
1	SP+1.0	SP
2	SP+1.5	SP-5
3, 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 DEGREE INCREMENTS.

STAGE #	ON	OFF
1	SP+5	SP-5
2	SP+1.0	SP
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 FIRST STAGE HEATING AND MODULATE THE OUTSIDE AIR DAMPER TO THE MINIMUM POSITION.

IF THE SPACE TEMPERATURE CONTINUES TO DECREASE AFTER ENERGIZING HEATING, THE OEM CONTROLLER SHALL CONTINUE TO ENERGIZE ADDITIONAL STAGES 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.

HEATING STAGES SHALL DE-ENERGIZE AS THE HEATER CUTOUT TEMPERATURES ARE SATISFIED IN 0.5 DEGREE INCREMENTS.

STAGE #	ON	OFF
1	SP-5	SP-5
2	SP-1.0	SP
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	FROM BAS TO OWNER ALARM REPORTING PROGRAM (WARP)	BAS PRIORITY	ALARM LEVEL
SPACE TEMP SALES FLOOR	YES	DAILY	SPACE TEMP <= 40 DF OR >= 82 DF FOR 60 MIN
SPACE TEMP OFFICES	YES	DAILY	SPACE TEMP <= 40 DF OR >= 82 DF FOR 60 MIN
SPACE TEMP PHARMACY & UPC	YES	DAILY	SPACE TEMP <= 40 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.

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

FROM RTU CONTROLLER TO BAS - ANALOG INPUTS

OBJECT ID	OBJECT NAME	UNITS
232	UNIT STATUS	NONE
236	SUPPLY FAN STATUS	PERCENT
240	DISCHARGE AIR TEMPERATURE	DEG F
241	EFFECTIVE OCCUPANCY	PERCENT
243	LOCAL SPACE TEMPERATURE	DEG F
244	OUTSIDE AIR DAMPER	PERCENT
245	HEAT PRIMARY	PERCENT
247	COOL PRIMARY	PERCENT
248	ECONOMIZER ENABLED	PERCENT
250	SPACE TEMPERATURE SETPT (EFF)	PERCENT
252	SPACE TEMPERATURE SETPT (EFF)	DEG F
255	MOST RECENT ERROR 1	NONE
256	MOST RECENT ERROR 2	NONE
257	MOST RECENT ERROR 3	NONE
258	MOST RECENT ERROR 4	NONE
259	MOST RECENT ERROR 5	NONE
274	SPACE CO2 SENSOR (EFF)	PPM
276	SPACE HUMIDITY (EFF)	PERCENT
278	DEHUMIDIFICATION SETPT (EFF)	PERCENT
279	DEHUMIDIFICATION STATUS	NONE
281	RETURN AIR TEMPERATURE	DEG F

**AIR-COOLED AIR HANDLING UNITS**

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

**SUPPLY FAN OPERATION**

THE BAS SHALL SEND AN ENABLE SIGNAL TO THE AHU OEM CONTROLLER FOR SUPPLY FAN OPERATION. UPON AN ENABLE SIGNAL FROM THE BAS, THE OEM CONTROLLER SHALL ENERGIZE THE SUPPLY FAN TO RUN CONTINUOUSLY.

**COOLING MODE OPERATION**

WHEN SPACE TEMPERATURE EXCEEDS THE COOLING SETPOINT, FIRST STAGE MECHANICAL COOLING SHALL BE ENERGIZED. IF THE COOLING SETPOINT IS NOT MET WITH FIRST STAGE MECHANICAL COOLING, THE OEM CONTROLLER SHALL BRING ON ADDITIONAL COMPRESSORS IN 10 MINUTE INTERVALS. COMPRESSOR STAGING FOR COOLING IS IN THE ORDER OF COMPRESSOR C, B, AND A. WHEN SPACE TEMPERATURE DROPS BELOW COOLING SETPOINT MINUS INDOOR TEMPERATURE DEADBAND, OEM CONTROLLER SHALL DE-ENERGIZE COOLING. COMPRESSORS STAGE OFF IN THE ORDER A, B, C, AND D IN 10 MINUTE INTERVALS.

COOLING STAGES (SPACE)		
STAGE #	COMP	ON OFF
1(D)	CLG SP	CLG SP-DB
2(C)	CLG SP	CLG SP-DB
3(B)	CLG SP	CLG SP-DB
4(A)	CLG SP	CLG SP-DB

**DEHUMIDIFICATION MODE**

DEHUMIDIFICATION MODE SHALL BE ENERGIZED BY EITHER A CALL FOR DEHUMIDIFICATION BASED ON OUTSIDE AIR DEWPOINT TEMPERATURE OR SPACE DEWPOINT TEMPERATURE.

**DEHUMIDIFICATION BASED ON OUTSIDE AIR DEWPOINT TEMPERATURE**  
IF THE OUTDOOR DEWPOINT TEMPERATURE EXCEEDS THE OUTDOOR DEWPOINT SETPOINT, THE OEM CONTROLLER SHALL ENERGIZE DEHUMIDIFICATION MODE.

DEHUMID STAGES (OSAT)		
STAGE #	COMP	ON OFF
1(A)	AMB DH SP	AMB DH SP-DB

**DEHUMIDIFICATION BASED ON INDOOR DEWPOINT TEMPERATURE**  
WHEN THE SPACE DEWPOINT TEMPERATURE EXCEEDS THE SPACE DEWPOINT SETPOINT, THE OEM CONTROLLER SHALL ENERGIZE DEHUMIDIFICATION MODE. IF AFTER 10 MINUTES THE SPACE DEWPOINT SETPOINT IS NOT MET WITH FIRST STAGE DEHUMIDIFICATION, THE OEM CONTROLLER SHALL BRING ON ADDITIONAL DEHUMIDIFICATION STAGES IN 10 MINUTE INTERVALS. COMPRESSOR STAGING FOR DEHUMIDIFICATION IS IN THE ORDER OF COMPRESSOR A, B, C, AND D. WHEN SPACE DEWPOINT DROPS BELOW THE SPACE DEWPOINT SETPOINT MINUS INDOOR DEWPOINT TEMPERATURE DEADBAND, THE OEM CONTROLLER SHALL DE-ENERGIZE DEHUMIDIFICATION. COMPRESSORS STAGE OFF IN THE ORDER D, C, B, AND A IN 10 MINUTE INTERVALS.

DEHUMID STAGES (SPACE)		
STAGE #	COMP	ON OFF
1(A)	SPACE DH SP	SPACE DH SP-DB
2(B)	SPACE DH SP	SPACE DH SP-DB
3(C)	SPACE DH SP	SPACE DH SP-DB
4(D)	SPACE DH SP	SPACE DH SP-DB

**ALARMS**

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

AHU MONITORING ALARM LIST			
FROM CAREL TO BMS	FROM BAS TO OWNER ALARM REPORTING PROGRAM (WARP)	BAS PRIORITY	ALARM LEVEL
FROM CAREL TO BMS	FROM BAS TO OWNER ALARM REPORTING PROGRAM (WARP)	AS PRIORITY	AS PRIORITY
AIRFLOW CONFIRMATION	YES	DAILY	

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

AHU MONITORING ALARM LIST			
DESCRIPTION	FROM BAS TO OWNER ALARM REPORTING PROGRAM (WARP)	BAS PRIORITY	ALARM LEVEL
SPACE TEMP SALES FLOOR	YES	DAILY	SPACE TEMP <= 40 DF OR >= 82 DF FOR 60 MIN
SPACE TEMP OFFICES	YES	DAILY	SPACE TEMP <= 40 DF OR >= 82 DF FOR 60 MIN
CRITICAL AHU AMBIENT SENSOR ERROR	YES	DAILY	AHU CONTROLLER SENSOR FAIL FAULT

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.

MUNTERS AHU COMMUNICATION DATA POINT LIST			
BACnet Address	R/W	Type	Description
AV11	R	ANL	Occupied Zone DH Setpoint
AV12	W	ANL	Zone DH Deadband
AV13	R	ANL	Amb DH Override Setpoint
AV15	R	ANL	Occupied Zone Cool Setpoint
AV16	W	ANL	Zone Temp Deadband
AV21	R	ANL	Amb Temp Std Heat Stage 1 Setpoint
AV22	R	ANL	Amb Temp Std Heat Stage 2 Setpoint
AV23	R	ANL	Amb Temp Std Heat Stage 3 Setpoint
AV24	R	ANL	Amb Temp Std Heat Stage 4 Setpoint
AV26	W	ANL	Occupied Zone Heat Setpoint
AV1001	R	INT	DH/Cool stage on delay
AV1002	R	INT	DH/Cool stage off delay

Temperature Values: To and from the unit

AV1	R	ANL	output	Amb Temperature from AHU to BMS	Temp F
AV2	R	ANL	output	Amb Dewpoint from AHU to BMS	Temp F
AV3	R	ANL	output	Leaving Temperature from AHU to BMS	Temp F
AV4	R	ANL	output	Leaving Dewpoint from AHU to BMS	Temp F
AV7	R	ANL	output	Zone Temperature from AHU to BMS	Temp F
AV8	R	ANL	output	Zone dewpoint from AHU to BMS	Temp F

Inputs - Calls for Unit Functions

BV7	R	DOY	input	Turn Unit On (Call for Supply Fan)	1=Active
BV8	W	DOY	input	Fault Reset	1=Reset
AV1005	R	INT	input	Supply Fan Speed	Percent

Faults - Feedback from the Unit

BV2	R	DOY	output	Fault on: Supply Fan	1=Fault
BV3	R	DOY	output	Fault on: Compressor Fail	1=Fault
BV4	R	DOY	output	Fault on: Sensor Fail	1=Fault
BV5	R	DOY	output	Fault on: Heater	1=Fault
BV6	R	DOY	output	Fault on: Reactivation Fan	1=Fault
BV7	R	DOY	output	Fault on: Desiccant Wheel	1=Fault

Status - Feedback from the Unit

AV1003	R	INT	output	% Output of Reactivation Fan	Percent
AV1004	R	INT	output	% Output of Supply Fan	Percent
BV9	R	DOY	output	Air flow switch confirmation	1=Active
BV10	R	DOY	output	Compressor A on	1=Active
BV11	R	DOY	output	Compressor B on	1=Active
BV12	R	DOY	output	Compressor C on	1=Active
BV13	R	DOY	output	Compressor D on	1=Active
BV15	R	DOY	output	Aux Heat Stage 1 on	1=Active
BV16	R	DOY	output	Aux Heat Stage 2 on	1=Active
BV19	R	DOY	output	Desiccant Wheel on	1=Active
BV20	R	DOY	output	Reactivation Fan on	1=Active

Pressure Values - Feedback from the Unit

AV30	R	ANL	output	Compressor A Discharge Pressure	PSIG
AV31	R	ANL	output	Compressor B Discharge Pressure	PSIG
AV32	R	ANL	output	Compressor C Discharge Pressure	PSIG
AV33	R	ANL	output	Compressor D Discharge Pressure	PSIG
AV34	R	ANL	output	Compressor A Suction Pressure	PSIG
AV35	R	ANL	output	Compressor B Suction Pressure	PSIG
AV36	R	ANL	output	Compressor C Suction Pressure	PSIG
AV37					