INSTALLATION INSTRUCTIONS

S1-SE COM1001-0 Communication Board To a Simplicity SE Unit Control Board

DESCRIPTION

The Simplicity® SE communications card provides an interface between a series of rooftop units at a single site, as well as communication to building automation system (BAS). The card is a multi-protocol capable network card. It provides options for many of the more commonly used BAS protocols including BACnet MS/TP, Modbus RTU, and JCI N2. The board comes defaulted to BACnet MS/TP protocol from the factory, however, as a simple setting in the UCB can be used to select Modbus RTU or N2 if desired.

INSTALLATION

1. Power down the UCB.
2. Ensure that no power source is connected to the unit.
3. Align the SE-COM1001 (14 slot) Socket with the 14 pins at W13 on the Unit Control Board (UCB).
4. Carefully insert the socket into the pins on the UCB as shown (See Figure 1.)

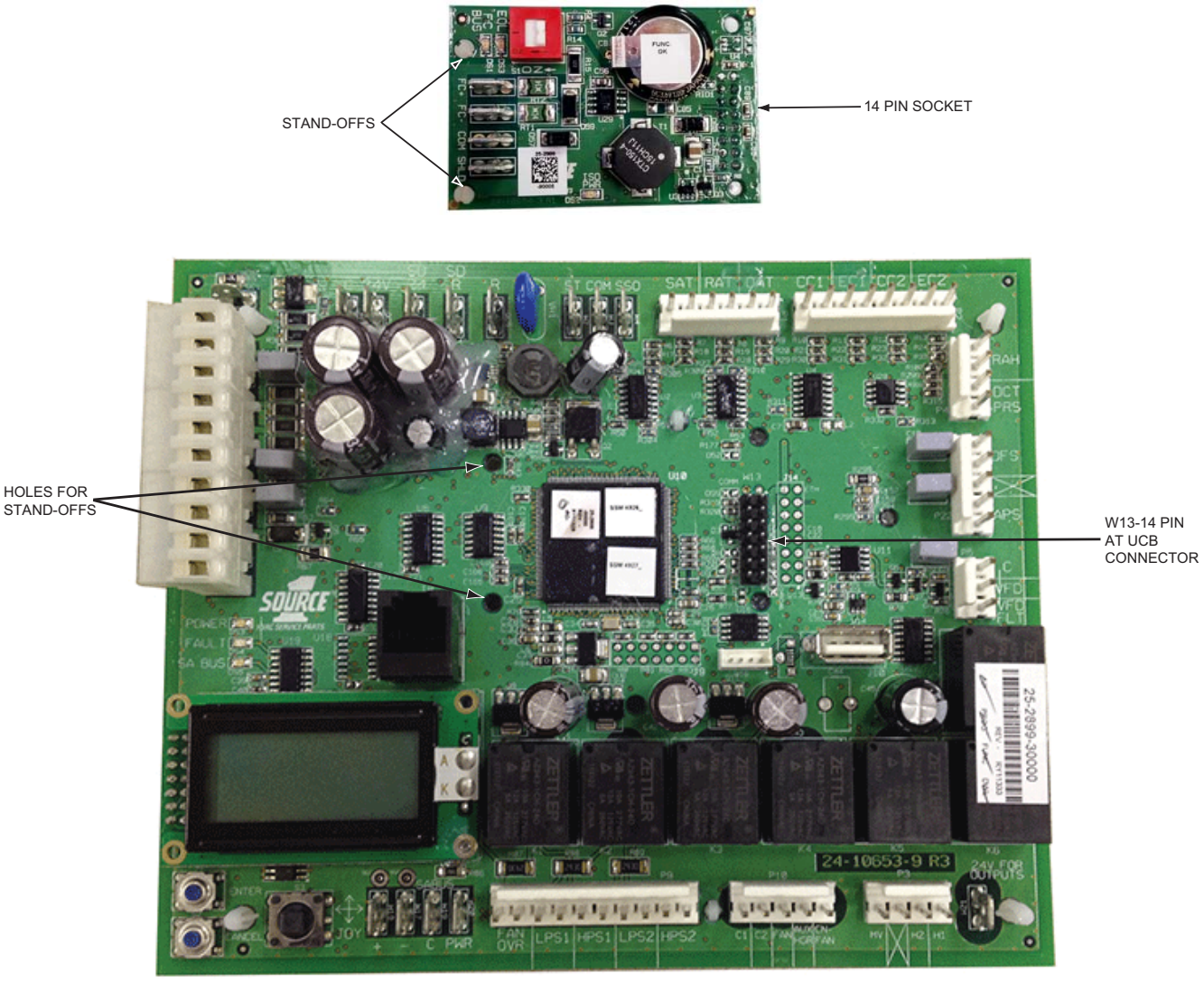


FIGURE 1 - SOCKET AND PIN LOCATION

5. Align the support pins on the SE-COM1001 with the holes on the UCB (See Figure 1.)
6. Carefully seat the pins on the board.

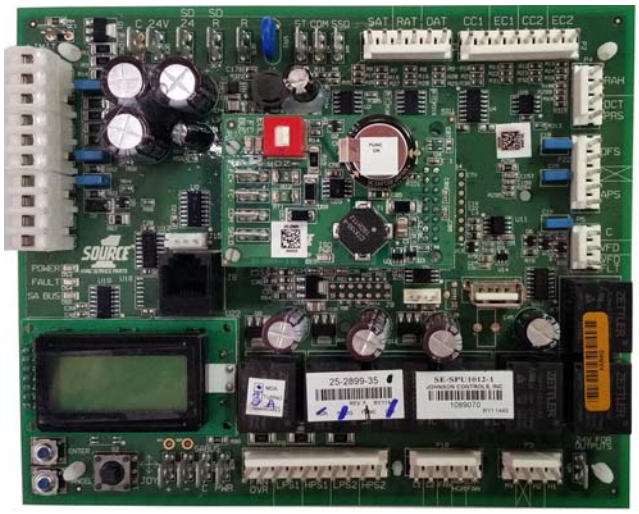
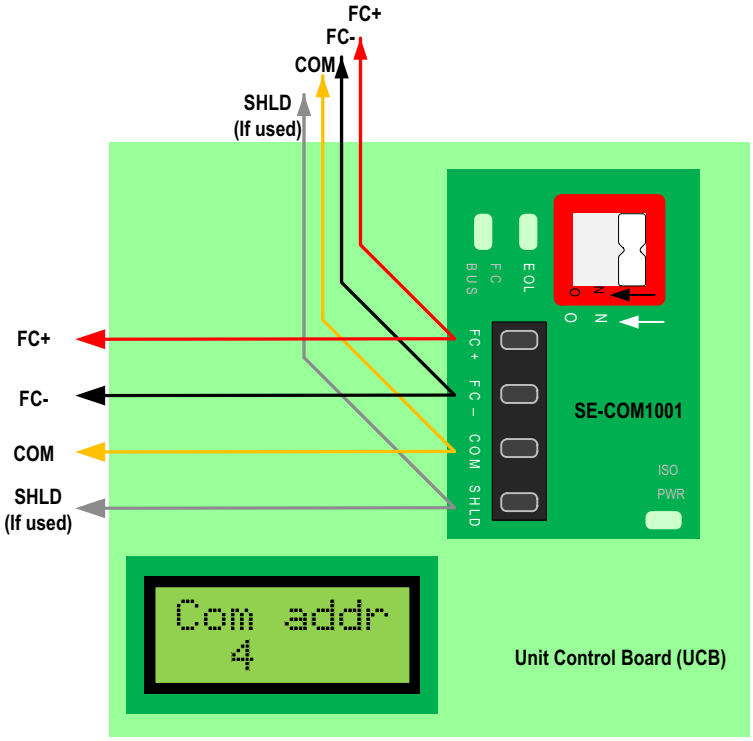


FIGURE 2 - COMMUNICATION BOARD INSTALLED

7. After the SE-COM1001 board is attached to the UCB, connect the field communications cable to the SE-COM1001 as shown in Figures 3 and 4.



SE-COM1001 Wiring Detail

Note: For the best performance on MS/TP bus applications, use 22 AWG stranded, 3-wire, twisted in a shielded cable with proper cable shield grounding. Other wire gauges and non-shielded cable **may** provide acceptable bus performance in many applications, especially applications that have short cable runs and low ambient inductive noise levels.

FIGURE 3 - SE-COM1001 WIRING DETAIL

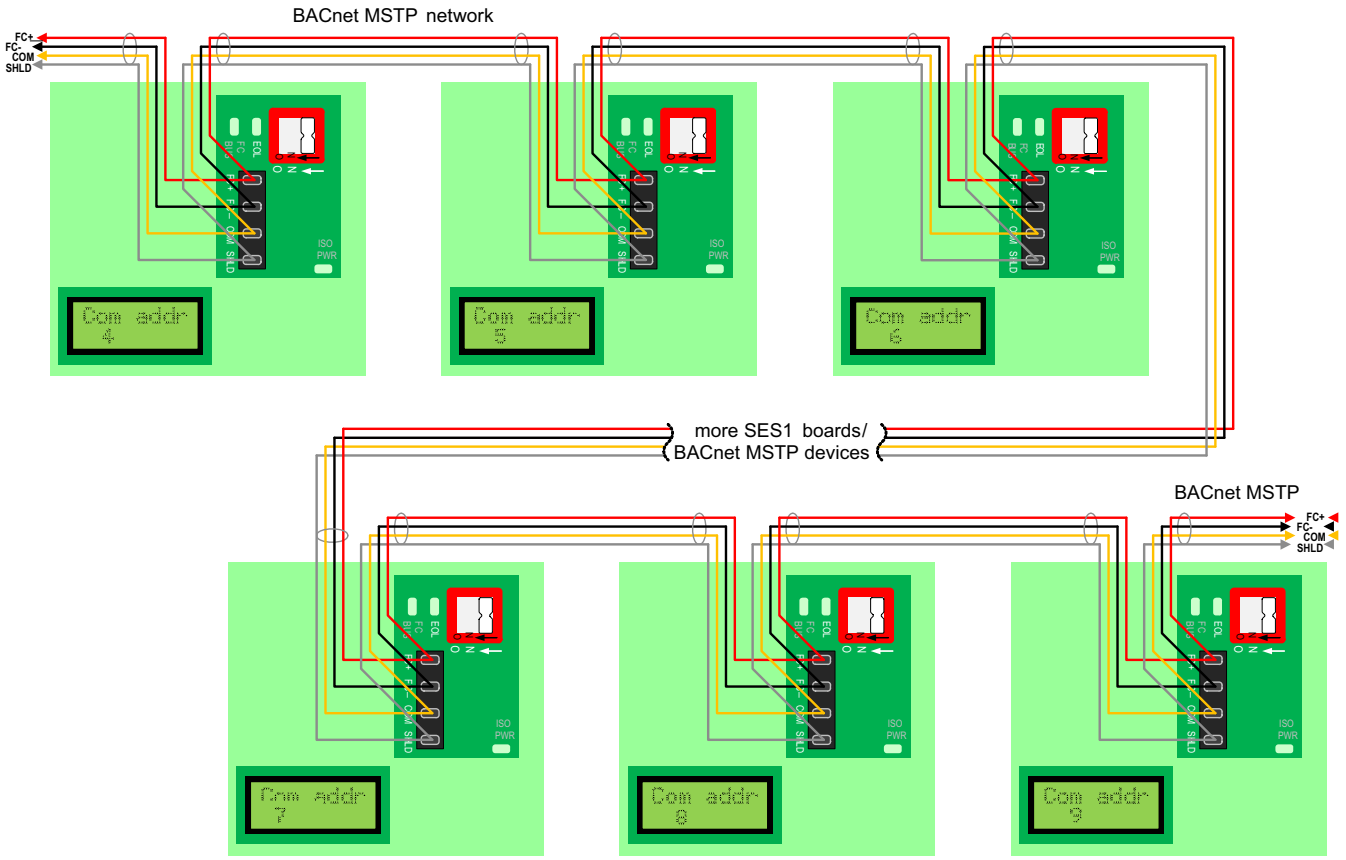


FIGURE 4 - BACNET MSTP NETWORK

8. After connecting the field communications bus to the SE-COM1001, power the unit up and wait for the controller to become operational.

To finish the installation process, the following 2 steps need to be completed:

1. Set the communication protocol to be used (LCD Menu => Controller > Network > FcBusMode). Choices are as follows:

   a. **Wired Field Bus** = BACnet MS/TP (default)

   b. **Wireless** = Not Used

   c. **Modbus Field Bus** = Modbus RTU

   d. **N2 Slave Field Bus** = JCI N2

   e. **Ethernet Field Bus**

2. Set the board address (LCD Menu => Controller > Network > Address)

   a. Default = 4

NOTE: The board address must be unique on the communication segment or communication errors will occur (See Tables 1 and 2).

Table 1: BACnet Modbus Point Mapping

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Write able Flag
Unit Status	Unit-S	29803	280	#N/A	0	#N/A	0	0
Name	Name	29804	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Model No.	Model#	29805	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Serial No.	Serial#	29806	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Firmware Version	FirmVer	29807	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Exhaust Fan Type	ExFType	29503	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Reset Lockouts	ResetLO	29826	80	#N/A	0	#N/A	0	1
Single Zone VAV Enable	SZVAVEn	29908	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Hardware Reset	HdwrReset	29909	126	#N/A	0	#N/A	0	1
Y1 - Thermostat	Y1-Tstat	29504	281	#N/A	0	#N/A	0	0
Y2 - Thermostat	Y2-Tstat	29505	282	#N/A	0	#N/A	0	0
Y3 - Thermostat	Y3-Tstat	29506	283	#N/A	0	#N/A	0	0
Y4 - Thermostat	Y4-Tstat	29507	284	#N/A	0	#N/A	0	0
W1 - Thermostat	W1-Tstat	29508	285	#N/A	0	#N/A	0	0
W2 - Thermostat	W2-Tstat	29509	286	#N/A	0	#N/A	0	0
W3 - Thermostat	W3-Tstat	29510	287	#N/A	0	#N/A	0	0
G - Thermostat	G-Tstat	29511	288	#N/A	0	#N/A	0	0
X-OUT	X-Out	29513	289	#N/A	0	#N/A	0	0
Thermostat Only Control	Tstat-Only	29514	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fan Status	Fan-S	29550	302	#N/A	0	#N/A	0	0
Supply Fan Pct Output	FanVFD	29551	157	X10	0	Signed	0	0
Fan VFD Fault	FanVFDFlt	29552	303	#N/A	0	#N/A	0	0
Supply Fan Overload	FanOvrload	29553	304	#N/A	0	#N/A	0	0
Fan Accumulated Runtime	Fan-RT	29554	9	X10	0	Unsigned	0	1
Fan Control Type	FanCtl-Type	29555	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Air Proving Switch Setup	APSSetup	29556	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Air Proving Switch	APS	29557	305	#N/A	0	#N/A	0	0
Fan On Delay for Cool	FanOnDlyCool	29558	90	#N/A	0	#N/A	0	1
Fan Off Delay for Cool	FanOffDlyCool	29559	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fan On Delay for Heat	FanOnDlyHeat	29560	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fan Off Delay for Heat	FanOffDlyHeat	29561	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Dirty Filter Switch	DFS	29562	306	#N/A	0	#N/A	0	0
Fan Command	Fan	29563	307	#N/A	0	#N/A	0	0
Supply Air Temperature	SAT	29564	158	X10	0	Signed	0	0
Duct Static Pressure	DctPrs	29565	159	X100	0	Signed	0	0

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Writeable Flag
Duct Pressure Setpoint	DctPrs-Sp	29566	10	X100	0	Signed	0	1
Duct Pressure Shutdwn Sp	DctShutdownSp	29567	11	X100	0	Signed	0	1
Cont SF Oper in Occ Mode	FanOnOcc	29568	91	#N/A	0	#N/A	0	1
Trn Off Cnt Fn Opr St Ht	FanOffStartHeat	29569	92	#N/A	0	#N/A	0	1
Occ No Heat or Cl Pct Sp	FanOnly-%Cmd	29570	12	X10	0	Signed	0	1
Occ 1 Stage of Cl Pct Sp	1ClgStg-%Cmd	29571	13	X10	0	Signed	0	1
Occ 2 Stges of Cl Pct Sp	2ClgStg-%Cmd	29572	14	X10	0	Signed	0	1
Occ 1 Stage of Ht Pct Sp	1HtgStg-%Cmd	29573	17	X10	0	Signed	0	1
Occ 2 Stges of Ht Pct Sp	2HtgStg-%Cmd	29574	18	X10	0	Signed	0	1
Occ 3 Stges of Cl Pct Sp	3ClgStg-%Cmd	29819	15	X10	0	Signed	0	1
Occ 4 Stges of Cl Pct Sp	4ClgStg-%Cmd	29820	16	X10	0	Signed	0	1
Occ 3 Stges of Ht Pct Sp	3HtgStg-%Cmd	29821	19	X10	0	Signed	0	1
SZ VAV Minimum Fan Speed	SZVAVMinFanSpd	29913	73	X10	0	Signed	0	1
Clg Mode Ena For Oper	Clg-En	29575	93	#N/A	0	#N/A	0	1
Number of Cooling Stages	#ClgStgs	29576	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Cooling Status	Clg-S	29577	308	#N/A	0	#N/A	0	0
Min Runtime Clg Stage	MinRtCoolStg	29578	20	X10	0	Unsigned	0	1
Compressor Lead-Lag Enable	LeadLag-En	29579	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Low Ambient Fan Pre-run Time For Cooling	LowAmbFanPrerunCool	29580	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
OAT Cooling Cutout Ena	ClgOATCutout-En	29581	94	#N/A	0	#N/A	0	1
OAT Cooling Cutout	ClgOATCutout	29582	21	X10	0	Signed	0	1
Economizer Loading Ena	EconLoad-En	29583	95	#N/A	0	#N/A	0	1
All Stgs Clg Off in Econ	AllCompOff-Econ	29584	96	#N/A	0	#N/A	0	1

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Write able Flag
Low Ambient Cooling Stages 10 on 5 off Setpoint	LowAmb10On 5OffSp	29585	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Temp/Hum (Ret) Cntrl Ena	TempHumCtrl-En	29586	97	#N/A	0	#N/A	0	1
Temp/Humidity Sp	TempHum-Sp	29587	22	X10	0	Signed	0	1
Max Temp / Hum Sp Offset	MaxTempHum SpOff	29588	23	X10	0	Signed	0	1
Temp-Hum Value-Deg Offst	TempHumValP erDegOff	29589	24	X10	0	Signed	0	1
SAT Limit for Clg Ena	SATCoolLimit-En	29590	98	#N/A	0	#N/A	0	1
SAT Limit for Cooling Sp	SATCoolLimit-Sp	29591	25	X10	0	Signed	0	1
Freeze Condition Setpoint	Freeze-Sp	29592	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Condenser Fan 1	CN-Fan	29593	309	#N/A	0	#N/A	0	0
Condenser Fan 2	CF2	29594	310	#N/A	0	#N/A	0	0
Unit Type	UnitType	29595	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
EER	EER	29596	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Subcooling Goal	SubcoolGoal	29597	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Refrigerant Type	RefrigType	29598	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
High Side Port Location	HiSidePortLoc	29599	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Evaporator Coil Type	EvapCoil-Type	29600	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Condenser Coil Type	CondCoil-Type	29601	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Indoor Metering Device Type	InMeterDev-Type	29602	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Outdoor Metering Device Type	OutMeterDev-Type	29603	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
VAV Clg SA Temp Upper Sp	SATUp-Sp	29604	26	X10	0	Signed	0	1
VAV Cig SA Temp Lower Sp	SATLo-Sp	29605	27	X10	0	Signed	0	1
VAV SA Temp Reset Sp	SATRst-Sp	29606	28	X10	0	Signed	0	1
VAV Oper Clg SA Temp Sp	OprVAVClg-Sp	29607	160	X10	0	Signed	0	0
CV Occupied Cooling Sp	ClgOcc-Sp	29608	29	X10	0	Signed	0	1
CV Unoccupied Cooling Sp	ClgUnocc-Sp	29609	30	X10	0	Signed	0	1
CV Operating Cooling Sp	OprCVClg-Sp	29610	161	X10	0	Signed	0	0
Unit Capacity	UnitCap	29886	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Writeable Flag
Fan Power	FanPower	29887	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Super Heat Goal	SuperHeatGoal	29888	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Altitude	Altitude	29889	31	X10	0	Signed	0	1
Cooling Adaptive Tuning Enable	ClgAdapTunEn	29882	100	#N/A	#N/A	#N/A	#N/A	1
Refrig Systems Installed	#RefrigSys	29890	32	X10	0	Unsigned	0	1
DAT Cooling Min SP	DATClgMinSP	29907	74	X10	0	Signed	0	1
Pump Out Enable	PmpOut-En	29921	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Staged Cooling Command	StgClgCmd	29922	263	X10	0	Signed	0	0
Low Ambient Enable	LowAmb-En	29928	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
C1 Stage Command	C1	29611	311	#N/A	0	#N/A	0	0
C1 Stage Status	C1-S	29615	312	#N/A	0	#N/A	0	0
C1 Stage Enabled	C1-En	29619	101	#N/A	0	#N/A	0	1
Hot Gas Bypass Present	HGP-Inst	29623	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
C1 Stage Acc Runtime	C1RunTim	29627	33	X10	0	Unsigned	0	1
C1 Min On Time Remaining	C1OnTmr	29631	162	X1	0	Unsigned	0	0
C1 ASCD Time Remaining	C1ASCDTmr	29635	163	X1	0	Unsigned	0	0
C1 High Pressure Limit	HPS1	29639	313	#N/A	0	#N/A	0	0
C1 High Pressure Lockout	HPS1-LO	29643	314	#N/A	0	#N/A	0	0
C1 Low Pressure Limit	LPS1	29647	315	#N/A	0	#N/A	0	0
C1 Low Pressure Lockout	LPS1-LO	29651	316	#N/A	0	#N/A	0	0
C1 Freeze Condition	FS1	29655	317	#N/A	0	#N/A	0	0
C1 Freeze Cond Lckout	FS1-LO	29659	318	#N/A	0	#N/A	0	0
C1 Evaporator Coil Temp	EC1	29663	164	X10	0	Signed	0	0
C1 Condenser Coil Temp	CC1	29667	165	X10	0	Signed	0	0
C1 Clg Circ Test Status	ClgCktTestS-1	29829	343	#N/A	0	#N/A	0	0
C1 Suction Line Pressure	SLP-1	29671	178	X10	0	Signed	0	0
C1 Liquid Line Pressure	LLP-1	29675	179	X10	0	Signed	0	0
C1 Suction Line Temp	SLT-1	29679	180	X10	0	Signed	0	0
C1 Liquid Line Temp	LLT-1	29683	181	X10	0	Signed	0	0
C1 Superheat	C1-SuperHeat	29687	182	X10	0	Signed	0	0
C1 Subcooling	C1-SubCool	29691	183	X10	0	Signed	0	0

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Writeable Flag
C1 Cond Temp over Amb	C1-CondTempOvrAmb	29695	184	X10	0	Signed	0	0
C1 Efficiency Index	C1-EI	29699	185	X10	0	Signed	0	0
C1 Capacity Index	C1-CI	29703	186	X10	0	Signed	0	0
C1 Evap Temp Val Circuit	C1-EvapTempValue	29833	187	X10	0	Signed	0	0
C1 Cnd Temp Ovr Amb High	C1-CondTempOAHigh	29849	188	X10	0	Signed	0	0
C1 Cond Temp ovr Amb Low	C1-CondTempOALow	29853	189	X10	0	Signed	0	0
C1 Superheat High	C1-SuperheatHigh	29857	190	X10	0	Signed	0	0
C1 Superheat Low	C1-SuperheatLow	29861	191	X10	0	Signed	0	0
C1 Subcool High	C1-SubcoolHigh	29865	192	X10	0	Signed	0	0
C1 Subcool Low	C1-SubcoolLow	29869	193	X10	0	Signed	0	0
C1 Evaporating Temp High	C1-EvapTempHigh	29873	194	X10	0	Signed	0	0
C1 Evaporating Temp Low	C1-EvapTempLow	29877	195	X10	0	Signed	0	0
C2 Stage Command	C2	29612	319	#N/A	0	#N/A	0	0
C2 Stage Status	C2-S	29616	320	#N/A	0	#N/A	0	0
C2 Stage Enabled	C2-En	29620	102	#N/A	0	#N/A	0	1
C2 Stage Acc Runtime	C2RunTim	29628	34	X10	0	Unsigned	0	1
C2 Min On Time Remaining	C2OnTmr	29632	166	X1	0	Unsigned	0	0
C2 ASCD Time Remaining	C2ASCDTmr	29636	167	X1	0	Unsigned	0	0
C2 High Pressure Limit	HPS2	29640	321	#N/A	0	#N/A	0	0
C2 High Pressure Lockout	HPS2-LO	29644	322	#N/A	0	#N/A	0	0
C2 Low Pressure Limit	LPS2	29648	323	#N/A	0	#N/A	0	0
C2 Low Pressure Lockout	LPS2-LO	29652	324	#N/A	0	#N/A	0	0
C2 Freeze Condition	FS2	29656	325	#N/A	0	#N/A	0	0
C2 Freeze Cond Lckout	FS2-LO	29660	326	#N/A	0	#N/A	0	0

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Writeable Flag
C2 Evaporator Coil Temp	EC2	29664	168	X10	0	Signed	0	0
C2 Condenser Coil Temp	CC2	29668	169	X10	0	Signed	0	0
C2 Clg Circ Test Status	ClgCktTestS-2	29830	344	#N/A	0	#N/A	0	0
C2 Suction Line Pressure	SLP-2	29672	196	X10	0	Signed	0	0
C2 Liquid Line Pressure	LLP-2	29676	197	X10	0	Signed	0	0
C2 Suction Line Temp	SLT-2	29680	198	X10	0	Signed	0	0
C2 Liquid Line Temp	LLT-2	29684	199	X10	0	Signed	0	0
C2 Superheat	C2-SuperHeat	29688	200	X10	0	Signed	0	0
C2 Subcooling	C2-SubCool	29692	201	X10	0	Signed	0	0
C2 Cond Temp over Amb	C2-CondTempOvrAmb	29696	202	X10	0	Signed	0	0
C2 Efficiency Index	C2-EI	29700	203	X10	0	Signed	0	0
C2 Capacity Index	C2-CI	29704	204	X10	0	Signed	0	0
C2 Evap Temp Val Circuit	C2-EvapTempValue	29834	205	X10	0	Signed	0	0
C2 Cnd Temp Ovr Amb High	C2-CondTempOAHigh	29850	206	X10	0	Signed	0	0
C2 Cond Temp ovr Amb Low	C2-CondTempOALow	29854	207	X10	0	Signed	0	0
C2 Superheat High	C2-SuperheatHigh	29858	208	X10	0	Signed	0	0
C2 Superheat Low	C2-SuperheatLow	29862	209	X10	0	Signed	0	0
C2 Subcool High	C2-SubcoolHigh	29866	210	X10	0	Signed	0	0
C2 Subcool Low	C2-SubcoolLow	29870	211	X10	0	Signed	0	0
C2 Evaporating Temp High	C2-EvapTempHigh	29874	212	X10	0	Signed	0	0
C2 Evaporating Temp Low	C2-EvapTempLow	29878	213	X10	0	Signed	0	0
C3 Stage Command	C3	29613	327	#N/A	0	#N/A	0	0
C3 Stage Status	C3-S	29617	328	#N/A	0	#N/A	0	0
C3 Stage Enabled	C3-En	29621	103	#N/A	0	#N/A	0	1
C3 Stage Acc Runtime	C3RunTim	29629	35	X10	0	Unsigned	0	1

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Writeable Flag
C3 Min On Time Remaining	C3OnTmr	29633	170	X1	0	Unsigned	0	0
C3 ASCD Time Remaining	C3ASCDTmr	29637	171	X1	0	Unsigned	0	0
C3 High Pressure Limit	HPS3	29641	329	#N/A	0	#N/A	0	0
C3 High Pressure Lockout	HPS3-LO	29645	330	#N/A	0	#N/A	0	0
C3 Low Pressure Limit	LPS3	29649	331	#N/A	0	#N/A	0	0
C3 Low Pressure Lockout	LPS3-LO	29653	332	#N/A	0	#N/A	0	0
C3 Freeze Condition	FS3	29657	333	#N/A	0	#N/A	0	0
C3 Freeze Cond Lckout	FS3-LO	29661	334	#N/A	0	#N/A	0	0
C3 Evaporator Coil Temp	EC3	29665	172	X10	0	Signed	0	0
C3 Condenser Coil Temp	CC3	29669	173	X10	0	Signed	0	0
C3 Clg Circ Test Status	ClgCktTestS-3	29831	345	#N/A	0	#N/A	0	0
C3 Suction Line Pressure	SLP-3	29673	214	X10	0	Signed	0	0
C3 Liquid Line Pressure	LLP-3	29677	215	X10	0	Signed	0	0
C3 Suction Line Temp	SLT-3	29681	216	X10	0	Signed	0	0
C3 Liquid Line Temp	LLT-3	29685	217	X10	0	Signed	0	0
C3 Superheat	C3-SuperHeat	29689	218	X10	0	Signed	0	0
C3 Subcooling	C3-SubCool	29693	219	X10	0	Signed	0	0
C3 Cond Temp over Amb	C3-CondTempOvrAmb	29697	220	X10	0	Signed	0	0
C3 Efficiency Index	C3-EI	29701	221	X10	0	Signed	0	0
C3 Capacity Index	C3-CI	29705	222	X10	0	Signed	0	0
C3 Evap Temp Val Circuit	C3-EvapTempValue	29835	223	X10	0	Signed	0	0
C3 Cnd Temp Ovr Amb High	C3-CondTempOAHigh	29851	224	X10	0	Signed	0	0
C3 Cond Temp ovr Amb Low	C3-CondTempOALow	29855	225	X10	0	Signed	0	0
C3 Superheat High	C3-SuperheatHigh	29859	226	X10	0	Signed	0	0
C3 Superheat Low	C3-SuperheatLow	29863	227	X10	0	Signed	0	0
C3 Subcool High	C3-SubcoolHigh	29867	228	X10	0	Signed	0	0

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Writeable Flag
C3 Subcool Low	C3-SubcoolLow	29871	229	X10	0	Signed	0	0
C3 Evaporating Temp High	C3-EvapTempHigh	29875	230	X10	0	Signed	0	0
C3 Evaporating Temp Low	C3-EvapTempLow	29879	231	X10	0	Signed	0	0
C4 Stage Command	C4	29614	335	#N/A	0	#N/A	0	0
C4 Stage Status	C4-S	29618	336	#N/A	0	#N/A	0	0
C4 Stage Enabled	C4-En	29622	104	#N/A	0	#N/A	0	1
C4 Stage Acc Runtime	C4RunTim	29630	36	X10	0	Unsigned	0	1
C4 Min On Time Remaining	C4OnTmr	29634	174	X1	0	Unsigned	0	0
C4 ASCD Time Remaining	C4ASCDTmr	29638	175	X1	0	Unsigned	0	0
C4 High Pressure Limit	HPS4	29642	337	#N/A	0	#N/A	0	0
C4 High Pressure Lockout	HPS4-LO	29646	338	#N/A	0	#N/A	0	0
C4 Low Pressure Limit	LPS4	29650	339	#N/A	0	#N/A	0	0
C4 Low Pressure Lockout	LPS4-LO	29654	340	#N/A	0	#N/A	0	0
C4 Freeze Condition	FS4	29658	341	#N/A	0	#N/A	0	0
C4 Freeze Cond Lckout	FS4-LO	29662	342	#N/A	0	#N/A	0	0
C4 Evaporator Coil Temp	EC4	29666	176	X10	0	Signed	0	0
C4 Condenser Coil Temp	CC4	29670	177	X10	0	Signed	0	0
C4 Clg Circ Test Status	ClgCktTestS-4	29832	346	#N/A	0	#N/A	0	0
C4 Suction Line Pressure	SLP-4	29674	232	X10	0	Signed	0	0
C4 Liquid Line Pressure	LLP-4	29678	233	X10	0	Signed	0	0
C4 Suction Line Temp	SLT-4	29682	234	X10	0	Signed	0	0
C4 Liquid Line Temp	LLT-4	29686	235	X10	0	Signed	0	0
C4 Superheat	C4-SuperHeat	29690	236	X10	0	Signed	0	0
C4 Subcooling	C4-SubCool	29694	237	X10	0	Signed	0	0
C4 Cond Temp over Amb	C4-CondTempOvrAmb	29698	238	X10	0	Signed	0	0
C4 Efficiency Index	C4-EI	29702	239	X10	0	Signed	0	0
C4 Capacity Index	C4-CI	29706	240	X10	0	Signed	0	0
C4 Evap Temp Val Circuit	C4-EvapTempValue	29836	241	X10	0	Signed	0	0

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Write able Flag
C4 Cnd Temp Ovr Amb High	C4-CondTempOA High	29852	242	X10	0	Signed	0	0
C4 Cond Temp ovr Amb Low	C4-CondTempOA Low	29856	243	X10	0	Signed	0	0
C4 Superheat High	C4-SuperheatHigh	29860	244	X10	0	Signed	0	0
C4 Superheat Low	C4-SuperheatLow	29864	245	X10	0	Signed	0	0
C4 Subcool High	C4-SubcoolHigh	29868	246	X10	0	Signed	0	0
C4 Subcool Low	C4-SubcoolLow	29872	247	X10	0	Signed	0	0
C4 Evaporating Temp High	C4-EvapTempHigh	29876	248	X10	0	Signed	0	0
C4 Evaporating Temp Low	C4-EvapTempLow	29880	249	X10	0	Signed	0	0
Htg Mode Enabled For Opr	Htg-En	29707	105	#N/A	0	#N/A	0	1
Heating Status	Htg-S	29708	347	#N/A	0	#N/A	0	0
SAT Limit for Htg Enable	SATHtgLimit-En	29709	106	#N/A	0	#N/A	0	1
SAT Limit for Htg Sp	SATHtgLimit-Sp	29710	37	X10	0	Signed	0	1
OA Temp Htg Cutout Sp	HtgOATCutout-Sp	29711	38	X10	0	Signed	0	1
Hot Water Freeze Stat	FSHW	29712	348	#N/A	0	#N/A	0	0
Gas Valve 1 Input	MV	29713	349	#N/A	0	#N/A	0	0
Gas Valve 2 Input	GV2	29714	350	#N/A	0	#N/A	0	0
Gas Valve 3 Input	GV3	29715	351	#N/A	0	#N/A	0	0
Heat Limit 1 Switch	Limit	29716	352	#N/A	0	#N/A	0	0
Heat Limit 1 Sw Lockout	LimitLO	29717	353	#N/A	0	#N/A	0	0
Heat Limit 2 Switch	Lim2	29718	354	#N/A	0	#N/A	0	0
Heat Limit 2 Sw Lockout	Lim2LO	29719	355	#N/A	0	#N/A	0	0
Heat Limit 3 Switch	Lim3	29720	356	#N/A	0	#N/A	0	0
Heat Limit 3 Sw Lockout	Lim3LO	29721	357	#N/A	0	#N/A	0	0
VAV Occupied Htg Enabled	HtgOcc-En	29722	107	#N/A	0	#N/A	0	1

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Writeable Flag
VAV Occupied Htg Sp	VAVHtgOcc-SP	29723	39	X10	0	Signed	0	1
VAV UnOccupied Htg Ena	HtgUnocc-En	29724	108	#N/A	0	#N/A	0	1
VAV Unoccupied Htg Sp	VAVHtgUnocc-Sp	29725	40	X10	0	Signed	0	1
VAV Operating Heating Sp	VAVOprHtg-Sp	29726	250	X10	0	Signed	0	0
Morning Warmup Enabled	MornW-En	29822	109	#N/A	0	#N/A	0	1
Wrmup-Return Air Temp Sp	MornWRAT-Sp	29823	41	X10	0	Signed	0	1
VAV Box Heat Command	VAV	29727	358	#N/A	0	#N/A	0	0
CV Occupied Heating Sp	CVHtgOcc-SP	29728	42	X10	0	Signed	0	1
CV Unoccupied Heating Sp	CVHtgUnocc-Sp	29729	43	X10	0	Signed	0	1
CV Operating Heating Sp	CVOprHtg-Sp	29730	251	X10	0	Signed	0	0
Morning Cooldown Enabled	MornC-En	29891	110	#N/A	0	#N/A	0	1
Cldwn-Return Air Temp Sp	MornCRAT-Sp	29892	44	X10	0	Signed	0	1
Optimal Start Enabled	OptStrt-En	29893	111	#N/A	0	#N/A	0	1
Occupancy BI Enabled	OccBI-En	29894	112	#N/A	0	#N/A	0	1
Early Start Period	EarlyStrtPeriod	29895	45	X10	0	Unsigned	0	1
Heating Adaptive Tuning Enable	HtgAdapTunEn	29881	114	#N/A	#N/A	#N/A	#N/A	1
DAT Max Heating SP	DATMaxHtgSP	29905	75	X10	0	Signed	0	0
DAT Satisfied SP	DATSatSP	29906	76	X10	0	Signed	0	0
Staged Heating Command	StgHtgCmd	29923	264	X10	0	Signed	0	0
Number of Heating Stages Installed	#HtgStgs	29731	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Heating Stage 1 Command	H1	29732	359	#N/A	0	#N/A	0	0
Heating Stage 1 Status	H1-S	29735	360	#N/A	0	#N/A	0	0
Heating Stage 1 Runtime	H1RunTim	29738	48	X10	0	Unsigned	0	1
Heating Stage 2 Command	H2	29733	361	#N/A	0	#N/A	0	0
Heating Stage 2 Status	H2-S	29736	362	#N/A	0	#N/A	0	0
Heating Stage 2 Runtime	H2RunTim	29739	49	X10	0	Unsigned	0	1
Heating Stage 3 Command	H3	29734	363	#N/A	0	#N/A	0	0

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Writeable Flag
Heating Stage 3 Status	H3-S	29737	364	#N/A	0	#N/A	0	0
Heating Stage 3 Runtime	H3RunTim	29740	50	X10	0	Unsigned	0	1
HW Heat Valve Pct Output	HWV	29741	252	X10	0	Signed	0	0
HW Heat Valve Rev Acting	HydReverse	29742	115	#N/A	0	#N/A	0	1
HW Htg Stage 1 SAT Sp	HydH1SA-Sp	29743	51	X10	0	Signed	0	1
HW Htg Stage 2 SAT Sp	HydH2SA-Sp	29744	52	X10	0	Signed	0	1
HW Heat SAT Tempring Ena	SATTempHyd Ht-En	29745	116	#N/A	0	#N/A	0	1
HW Heat SAT Tempering Sp	SATTempHyd Ht-Sp	29746	53	X10	0	Signed	0	1
Econ Enabled For Oper	Econ-En	29747	118	#N/A	0	#N/A	0	1
Econ Damper Pct Output	Econ	29748	253	X10	0	Signed	0	0
Econ Free Cooling Avail	Econ-Free	29749	369	#N/A	0	#N/A	0	0
Economizer Status	Econ-S	29750	370	#N/A	0	#N/A	0	0
Free Clg Current Mode	FreeClg-Mode	29751	371	#N/A	0	#N/A	0	0
Free Cooling Selection	FreeClg-Sel	29752	119	#N/A	0	#N/A	0	1
Econ OA Temp Enable Sp	EconOAT-SpEn	29753	55	X10	0	Signed	0	1
Econ OA Enthalpy Sp	EconOAEnth-Sp	29754	56	X10	0	Signed	0	1
Low Ambient Econ Sp	LowAmb-Sp	29755	57	X10	0	Signed	0	1
Low Ambient Econ Min Pos	LowAmb-MinPos	29756	58	X10	0	Signed	0	1
Econ Damper Position	EconDampPos	29824	254	X10	0	Signed	0	0
Mixed Air Temperature	MAT	29760	255	X10	0	Signed	0	0
Return Air Humidity	RAH	29761	138	X10	0	Unsigned	0	0
Supply Air Humidity	SAH	29762	256	X10	0	Signed	0	0
Return Air Enthalpy	RA-Enth	29763	257	X10	0	Signed	0	0
Econ Min OAD Pos	Econ-MinPos	29759	77	X10	0	Signed	0	1
Excess Outdoor Air	ExcessOutAirFlt	29809	372	#N/A	0	#N/A	0	0
Not Econ When Should	NotEconFlt	29810	373	#N/A	0	#N/A	0	0
Damper Not Modulating	EconDampFlt	29811	374	#N/A	0	#N/A	0	0
Econ When Should Not	EconWhenShouldNotFlt	29812	375	#N/A	0	#N/A	0	0
Econ Dmp Min Pos LS Fan	LowSpeedFan-MinPos	29808	54	X10	0	Signed	0	1

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Writeable Flag
EconMech Setup	EconMechStp	29912	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Econ Fault Detection Ena	EconFltDetectEn	29915	132	#N/A	0	#N/A	0	1
FDD Economizer Alarm Delay	EconAlrmDly	29916	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
FDD Economizer Damper Allowed Error	EconPosErr	29917	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
FDD Damper Min Position Tolerance	EconMinErr	29918	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
HGR Enabled For Oper	HGR-En	29789	123	#N/A	0	#N/A	0	1
HGR Command	HGR	29790	379	#N/A	0	#N/A	0	0
HGR Status	HGR-S	29791	380	#N/A	0	#N/A	0	0
HGR Humidity Setpoint	HGRHum-Sp	29792	68	X10	0	Signed	0	1
HGR Alternate Oper Ena	HGRAlt-En	29793	124	#N/A	0	#N/A	0	1
Hot Gas Reheat Alternate Operation Writeable	HGRAltWrite	29794	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
HGR Unocc Humidity Sp	HGRUnoccHum-SP	29903	78	X10	0	Signed	0	1
HGR Enabled For Unocc Mode	HGRUnocc-En	29904	133	#N/A	0	#N/A	0	1
Exhaust Fan Enable	ExFan-En	29774	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Exhaust Fan Command	ExFan	29775	376	#N/A	0	#N/A	0	0
Exhaust Fan VFD Output	ExFanVFD	29776	258	X10	0	Signed	0	0
Exhaust Fan Status	ExF-S	29777	377	#N/A	0	#N/A	0	0
Exhaust Fan VFD Fault	ExFanVFDFlt	29778	378	#N/A	0	#N/A	0	0
Exhaust Fan Acc Runtime	ExF-RunTim	29779	259	X10	0	Unsigned	0	0
Building Pressure Sp	Bldg-Sp	29780	63	X1000	0	Signed	0	1
Building Static Pressure	BldgPres	29781	260	X1000	0	Signed	0	0
Exhaust Damper Output	EAD-O	29782	261	X10	0	Signed	0	0
Exh Dmp Pos Exh Fan-On	ExDmpPosFanOn	29783	64	X10	0	Signed	0	1
Exh Dmp Pos Exh Fan-Off	ExDmpPosFanOff	29784	65	X10	0	Signed	0	1
Econ Dmp Pos-Exh Fan On	EconDmpPosFanOn	29785	66	X10	0	Signed	0	1
Econ Dmp Pos-Exh Fan Off	EconDmpPosFanOff	29786	67	X10	0	Signed	0	1
ERV Enabled	ERV-En	29787	121	#N/A	0	#N/A	0	1

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Writeable Flag
ERV Unoccupied Fan Ena	ERVUnoccFan-En	29788	122	#N/A	0	#N/A	0	1
Dmd Vent Mode of Oper	DVent-Mode	29765	120	#N/A	0	#N/A	0	1
Dmd Vent Max Econ Pos	DVentMaxEconPos	29766	60	X10	0	Signed	0	1
Dmd Vent IAQ Sp	DVentIAQ-Sp	29767	61	X10	0	Signed	0	1
Dmd Vent Differential Sp	DVentDiff-Sp	29768	62	X10	0	Signed	0	1
Outdoor Air Flow Sp	MOAFlow-Sp	29795	69	X10	0	Signed	0	1
Outdoor Air Flow	Fr	29796	262	X10	0	Signed	0	0
OA Intake Max Sensor Rng	MOA-Range	29797	70	X10	0	Signed	0	1
Occupancy Input Source	OccSrc	29515	290	#N/A	0	#N/A	0	0
Operational Occupancy	OprOcc	29517	292	#N/A	0	#N/A	0	0
Occupancy Enable Mode	OccMode	29518	82	#N/A	0	#N/A	0	1
Net Temp Occ Request	NetTempOcc	29519	83	#N/A	0	#N/A	0	1
Net Occupancy Request	NetOcc	29520	84	#N/A	0	#N/A	0	1
Temp Occupancy Timeout	TempOccTimeout	29521	85	#N/A	0	#N/A	0	1
Operational Space Temp	OprST	29522	135	X10	0	Signed	0	0
Space Temperature Source	STSrc	29523	293	#N/A	0	#N/A	0	0
Space Temp Alm Sp Offset	STAlarmOffset	29524	0	X10	0	Signed	0	1
Space Temp Alrm Time Dly	STAlarmDelay	29525	86	#N/A	0	#N/A	0	1
Net Override Space Temp	NetST	29526	1	X10	0	Signed	0	1
Oper Indoor Air Quality	OprIAQ	29527	136	X10	0	Signed	0	0
Indoor Air Quality Src	IAQSrc	29528	294	#N/A	0	#N/A	0	0
Indoor Air Qual Snsr Rng	IAQRange	29529	2	X10	0	Signed	0	1
Net Ovrd Indoor Air Qual	NetIAQ	29530	3	X10	0	Signed	0	1
Oper Space Humidity	OprSH	29531	137	X10	0	Signed	0	0
Space Humidity Source	SHSrc	29532	295	#N/A	0	#N/A	0	0
Space Humidity/RAH Input	RAH	29828	138	X10	0	Signed	0	0
Net Ovrd Zone Humidity	NetSH	29533	4	X10	0	Signed	0	1
Operating Fan Request	OprFanReq	29534	296	#N/A	0	#N/A	0	0
Fan Request Source	FanReqSrc	29535	297	#N/A	0	#N/A	0	0
Net Ovrd Fan Request	NetFanReq	29536	87	#N/A	0	#N/A	0	1

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Writeable Flag
Oper Space Temp Sp Offst	OprSSO	29537	140	X10	0	Signed	0	0
Space Temp Sp Offset Src	SSOSrc	29538	298	#N/A	0	#N/A	0	0
Space Temp Sp Offst Inpt	SSO	29539	141	X10	0	Signed	0	0
Net Ovrd Space Sp Offset	NetSSO	29540	5	X10	0	Signed	0	1
Occupancy BI Input	OCC	29516	291	#N/A	0	#N/A	0	0
Return Air Temperature	RAT	29764	139	X10	0	Signed	0	0
Temporary Occupancy Enable	TempOCC	29825	81	#N/A	0	#N/A	0	1
SP LoadShed Enable	LoadShedEnable	29883	127	#N/A	0	#N/A	0	1
SP LoadShed Rate Limit	LoadShedRateLim	29884	71	X1000	0	Unsigned	0	1
SP LoadShed Adjust	LoadShedAdjust	29885	72	X10	0	Unsigned	0	1
Time to Next Occ Period	TimeToNextOcc	29837	142	X10	0	Unsigned	0	0
Operating Mode	OprMode	29838	299	#N/A	0	#N/A	0	0
Clg Weighting Param 1	ClgWeight1	29839	143	X100	0	Signed	0	0
Clg Weighting Param 2	ClgWeight2	29840	144	X100	0	Signed	0	0
Htg Weighting Param 1	HtgWeight1	29841	145	X100	0	Signed	0	0
Htg Weighting Param 2	HtgWeight2	29842	146	X100	0	Signed	0	0
EWMA Cooling Demand	EWMAClgDmd	29843	147	X100	0	Signed	0	0
EWMA Heating Demand	EWMAHtgDmd	29844	148	X100	0	Signed	0	0
Corrected Return Time	CorrRetTime	29845	149	X10	0	Unsigned	0	0
Uncorrected Return Time	UncorrRetTime	29846	150	X10	0	Unsigned	0	0
Wrmup-Cldwn Start Time	WarmCoolStrtTime	29847	151	X10	0	Unsigned	0	0
Wrmup-Cldwn Start Temp	WarmCoolStrtTemp	29848	152	X10	0	Signed	0	0
Off During Unoccupied	OffDurUnocc	29914	88	#N/A	0	#N/A	0	1
Direct Loadshed	DirLoadshd	29910	128	#N/A	0	#N/A	0	1
Redline	Redline	29911	129	#N/A	0	#N/A	0	1
PID Tuning Reset	PIDTunRst	29919	130	#N/A	0	#N/A	0	1
Operational OA Temp	OprOAT	29541	153	X10	0	Signed	0	0
OA Temperature Source	OATSrc	29542	300	#N/A	0	#N/A	0	0
Net Ovrd OA Temperature	NetOAT	29543	6	X10	0	Signed	0	1

Table 1: BACnet Modbus Point Mapping (Continued)

Property Description	Property	BACNET POINT INFO	MODBUS POINT INFO					
		BACOid	Modbus Register Address	Modbus Scale Factor	Modbus Boolean Flag	Modbus Signed Flag	Modbus Offset	Modbus Writeable Flag
Operational OA Humidity	OprOAH	29544	154	X10	0	Signed	0	0
Outdoor Air Enthalpy	OA-Enth	29545	155	X10	0	Signed	0	0
Net Override OA Humidity	NetOAH	29546	7	X10	0	Signed	0	1
Operational OA Quality	OprOAQ	29547	156	X10	0	Signed	0	0
OA Quality Source	OAQSrc	29548	301	#N/A	0	#N/A	0	0
Net Override OA Quality	NetOAQ	29549	8	X10	0	Signed	0	1
Operating Purge Command	OprPurgeCmd	29798	381	#N/A	0	#N/A	0	0
Purge Command Source	PurgeCmdSrc	29799	382	#N/A	0	#N/A	0	0
Local Purge Cmd Input	Purge	29800	383	#N/A	0	#N/A	0	0
Net Ovrd Purge Command	NetPurge	29801	125	#N/A	0	#N/A	0	1
Smoke Detector	SD	29802	384	#N/A	0	#N/A	0	0
Econ Controller	EconCntlr	29813	385	#N/A	0	#N/A	0	0
4 Stage Controller	4StgCntlr	29814	386	#N/A	0	#N/A	0	0
FDD Master Controller	FDDMCntlr	29815	387	#N/A	0	#N/A	0	0
FDD Slave Controller	FDDSCntlr	29816	388	#N/A	0	#N/A	0	0
Device Name	DevName	29818	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
End of Line Switch On	EOL-On	29827	390	#N/A	0	#N/A	0	0
Number of Heat Pump Stages	#HtPumpStgs	29898	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Defrost Curve Selection	DefrostCurveSel	29899	117	#N/A	0	#N/A	0	1
Defrost State	DefrostState	29899	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Reversing Valve	RevVlv	29900	366	#N/A	0	#N/A	0	0
Auxiliary Heat	AuxHtg	29901	367	#N/A	0	#N/A	0	0
Heat Pump Mode	Mode	29902	368	#N/A	0	#N/A	0	0

Table 2: N2 Protocol Mapping Table

Point Type	Point Address	Long Name	Short Name	Value	Units
ANALOG INPUTS (*Denotes OPERATOR-DEFINED AI)					
AI	1	Space Humidity/RAH Input	RA-H		%RH
AI	2	Return Air Temperature	RA-T		deg F
AI	3	Supply Air Temperature	SA-T		deg F
AI	4	Duct Static Pressure	DUCT-P		in wc
AI	5	C1 Evaporator Coil Temp	EVAP1-T		deg F
AI	6	C1 Condenser Coil Temp	COND1-T		deg F
AI	7	C2 Evaporator Coil Temp	EVAP2-T		deg F
AI	8	C2 Condenser Coil Temp	COND2-T		deg F
AI	9	C3 Evaporator Coil Temp	EVAP3-T		deg F
AI	10	C3 Condenser Coil Temp	COND3-T		deg F
AI	11	C4 Evaporator Coil Temp	EVAP4-T		deg F
AI	12	C4 Condenser Coil Temp	COND4-T		deg F
AI	13	C1 Suction Line Pressure	SLP-1		psi
AI	14	C1 Liquid Line Pressure	LLP-1		psi
AI	15	C1 Suction Line Temp	SLT-1		deg F
AI	16	C1 Liquid Line Temp	LLT-1		deg F
AI	17	C2 Suction Line Pressure	SLP-2		psi
AI	18	C2 Liquid Line Pressure	LLP-2		psi
AI	19	C2 Suction Line Temp	SLT-2		deg F
AI	20	C2 Liquid Line Temp	LLT-2		deg F
AI	21	C3 Suction Line Pressure	SLP-3		psi
AI	22	C3 Liquid Line Pressure	LLP-3		psi
AI	23	C3 Suction Line Temp	SLT-3		deg F
AI	24	C3 Liquid Line Temp	LLT-3		deg F
AI	25	C4 Suction Line Pressure	SLP-4		psi
AI	26	C4 Liquid Line Pressure	LLP-4		psi
AI	27	C4 Suction Line Temp	SLT-4		deg F
AI	28	C4 Liquid Line Temp	LLT-4		deg F
AI	29	Mixed Air Temperature	MA-T		deg F
AI	30	Supply Air Humidity	SA-H		%RH
AI	31	Operational Space Temp	OPRST		deg F
AI	32	Oper Space Humidity	OPRSH		%RH
AI	33	Building Static Pressure	BLDG-P		in wc
ANALOG OUTPUTS (*Denotes OPERATOR-DEFINED AO)					
AO	1	Supply Fan Pct Output	SFPCT-O		%
AO	2	HW Heat Valve Pct Output	HWVLV-O		%
AO	3	Econ Damper Pct Output	OAD-O		%
AO	4	Exhaust Fan VFD Output	EFVFD-O		%

Table 2: N2 Protocol Mapping Table (Continued)

Point Type	Point Address	Long Name	Short Name	Value	Units
AO	5	Exhaust Damper Output	EAD-O		%
BINARY INPUTS (*Denotes OPERATOR-DEFINED BI)					
BI	1	Y1 - Thermostat	Y1-TSTAT		Off/On
BI	2	Y2 - Thermostat	Y2-TSTAT		Off/On
BI	3	Y3 - Thermostat	Y3-TSTAT		Off/On
BI	4	Y4 - Thermostat	Y4-TSTAT		Off/On
BI	5	W1 - Thermostat	W1-TSTAT		Off/On
BI	6	W2 - Thermostat	W2-TSTAT		Off/On
BI	7	W3 - Thermostat	W3-TSTAT		Off/On
BI	8	G - Thermostat	G-TSTAT		Off/On
BI	9	Occupancy BI Input	OCC-S		SE RTU Unocc/Occ
BI	10	Fan VFD Fault	FNVFDFLT		Normal/Alarm
BI	11	Supply Fan Overload	FAN-OL		Normal/Alarm
BI	12	Air Proving Switch	APS		Off/On
BI	13	Dirty Filter Switch	FILTER-S		Normal/Alarm
BI	14	C1 Stage Status	COMP1-S		SE RTU DX Cooling Circuit 1 Status
BI	15	C1 High Pressure Limit	HPS1-S		Normal/Alarm
BI	16	C1 Low Pressure Limit	LPS1-S		Normal/Alarm
BI	17	C1 Freeze Condition	FS1-S		Normal/Alarm
BI	18	C2 Stage Status	COMP2-S		SE RTU DX Cooling Circuit 1 Status
BI	19	C2 High Pressure Limit	HPS2-S		Normal/Alarm
BI	20	C2 Low Pressure Limit	LPS2-S		Normal/Alarm
BI	21	C2 Freeze Condition	FS2-S		Normal/Alarm
BI	22	C3 Stage Status	COMP3-S		SE RTU DX Cooling Circuit 1 Status
BI	23	C3 High Pressure Limit	HPS3-S		Normal/Alarm
BI	24	C3 Low Pressure Limit	LPS3-S		Normal/Alarm
BI	25	C3 Freeze Condition	FS3-S		Normal/Alarm
BI	26	C4 Stage Status	COMP4-S		SE RTU DX Cooling Circuit 1 Status
BI	27	C4 High Pressure Limit	HPS4-S		Normal/Alarm
BI	28	C4 Low Pressure Limit	LPS4-S		Normal/Alarm
BI	29	C4 Freeze Condition	FS4-S		Normal/Alarm
BI	30	Gas Valve 1 Input	GV1-S		Off/On
BI	31	Gas Valve 2 Input	GV2-S		Off/On
BI	32	Gas Valve 3 Input	GV3-S		Off/On
BI	33	Heat Limit 1 Switch	LIM1-SW		Normal/Alarm
BI	34	Heat Limit 2 Switch	LIM2-SW		Normal/Alarm
BI	35	Heat Limit 3 Switch	LM3-SW		Normal/Alarm
BI	36	Heating Stage 1 Status	H1-S		SE RTU Heating Stage 1 Status
BI	37	Heating Stage 2 Status	H2-S		SE RTU Heating Stage 1 Status
BI	38	Heating Stage 3 Status	H3-S		SE RTU Heating Stage 1 Status

Table 2: N2 Protocol Mapping Table (Continued)

Point Type	Point Address	Long Name	Short Name	Value	Units
BI	39	Exhaust Fan Status	EXHFAN-S		SE RTU Exhaust Fan
BI	40	Exhaust Fan VFD Fault	EFVFDFLT		Normal/Alarm
BI	41	HGR Status	HGR-S		SE RTU Hot Gas Reheat
BINARY OUTPUTS (*Denotes OPERATOR-DEFINED BO)					
BO	1	X-OUT	X-C		Off/On
BO	2	Fan Command	FAN-C		Off/On
BO	3	Condenser Fan 1	CF1-C		Off/On
BO	4	Condenser Fan 2	CF2-C		Off/On
BO	5	C1 Stage Command	COMP1-C		Off/On
BO	6	C2 Stage Command	COMP2-C		Off/On
BO	7	C3 Stage Command	COMP3-C		Off/On
BO	8	C4 Stage Command	COMP4-C		Off/On
BO	9	VAV Box Heat Command	VAVBOX-C		Off/On
BO	10	Heating Stage 1 Command	H1-C		Off/On
BO	11	Heating Stage 2 Command	H2-C		Off/On
BO	12	Heating Stage 3 Command	H3-C		Off/On
BO	13	Reversing Valve	REVVLV-C		Off/On
BO	14	Auxiliary Heat	AUXHTG-C		Off/On
BO	15	Exhaust Fan Command	EXHFAN-C		Off/On
BO	16	HGR Command	HGR-C		Off/On
PARAMETERS (* Denotes MONITOR ONLY Parameters)					
York RTU					
ADI	1	Unit Status	UNIT-S		SE RTU Unit Status
ADI	2	Reset Lockouts	RESETLO	Off	Off/Reset
ADI	109	Hardware Reset	HDW-RST		No/Yes
HVAC Zone					
ADI	3	Occupancy Input Source	OCCSRC		Effective Occupancy Source
ADI	4	Temporary Occupancy Ena	TEMPOCCEN		No/Yes
ADI	5	Operational Occupancy	OPROCC		Occ Effective
ADI	6	Occupancy Enable Mode	OCCENMODE	External	SE Occupancy Mode
ADI	7	Net Temp Occ Request	NETTMPOC	Unreliable]	False/True
ADI	8	Net Occupancy Request	NETOCCRQ	Unreliable]	Occ Sensor
ADI	9	Temp Occupancy Timeout	TMPOCCTO	120	min
ADI	10	Space Temperature Source	STSRC		Effective Input Source
ADF	2	Space Temp Alm Sp Offset	STALMOFF	5	°F delta
ADI	11	Space Temp Alrm Time Dly	STALMDLY	60	min
ADF	3	Net Override Space Temp	NETST	Unreliable]	deg F
ADF	4	Oper Indoor Air Quality	OPRIAQ		ppm
ADI	12	Indoor Air Quality Src	IAQSRC		Effective Input Source 2
ADF	5	Indoor Air Qual Snsr Rng	IAQRANGE	2000	ppm

Table 2: N2 Protocol Mapping Table (Continued)

Point Type	Point Address	Long Name	Short Name	Value	Units
ADF	6	Net Ovrd Indoor Air Qual	NETIAQ	Unreliable]	ppm
ADI	13	Space Humidity Source	SHSRC		Effective Input Source 2
ADF	8	Net Ovrd Zone Humidity	NETSH	Unreliable]	%RH
ADI	14	Operating Fan Request	OPRFNREQ		Off/On
ADI	15	Fan Request Source	FNREQSRC		Effective Input Source 2
ADI	16	Net Ovrd Fan Request	NETFNREQ	Off	Off/On
ADF	9	Oper Space Temp Sp Offst	OPRSSO		deg F
ADI	17	Space Temp Sp Offset Src	SSOSRC		Effective Input Source 2
ADF	10	Space Temp Sp Offst Inpt	SSO		°F delta
ADF	11	Net Ovrd Space Sp Offset	NETSSO	Unreliable]	°F delta
ADF	12	Time to Next Occ Period	T2NOCPER		min
ADI	18	Operating Mode	OPERMODE		Operating Mode
ADF	13	Clg Weighting Param 1	CLGWHTP1		
ADF	14	Clg Weighting Param 2	CLGWHTP2		
ADF	15	Htg Weighting Param 1	HTGWHTP1		
ADF	16	Htg Weighting Param 2	HTGWHTP2		
ADF	17	EWMA Cooling Demand	EWMACLDM		
ADF	18	EWMA Heating Demand	EWMAHTDM		
ADF	19	Corrected Return Time	CORETTM		min
ADF	20	Uncorrected Return Time	UCRETTM		min
ADF	21	Wrmup-Cldwn Start Time	WCSRTTIM		min
ADF	22	Wrmup-Cldwn Start Temp	WCSRTTMP		deg F
ADI	19	Off During Unoccupied	OFFDURUNC		No/Yes
ADI	20	Use Occupancy Schedule	USEOCCSCHD		No/Yes
ADI	110	Load Shed Active	LOADSHEDEN		No/Yes
ADF	157	Load Shed Rate Limit	LOADSHEDRT	0.666	
ADF	158	Load Shed Adjust	LOADSHEDAD	4	°F delta
ADI	111	Direct Loadshed	DIRLOADSHD		No/Yes
ADI	112	Redline	REDLINE		No/Yes
ADI	113	PID Tuning Reset	PIDTUNERST		False/True
ADI	114	Adaptive Tuning Enable	ADPTUNEN		Disable/Enable
Weather Information					
ADF	23	Operational OA Temp	OPROAT		deg F
ADI	21	OA Temperature Source	OATSRC		Effective Input Source 2
ADF	24	Net Ovrd OA Temperature	NETOAT	Unreliable]	deg F
ADF	25	Operational OA Humidity	OPROAH		%RH
ADF	26	Outdoor Air Enthalpy	OA-ENTH		btu/lb
ADF	27	Net Override OA Humidity	NETOAH	Unreliable]	%RH
ADF	28	Operational OA Quality	OPROAQ		ppm
ADI	22	OA Quality Source	OAQSRC		Effective Input Source 2

Table 2: N2 Protocol Mapping Table (Continued)

Point Type	Point Address	Long Name	Short Name	Value	Units
ADF	29	Net Override OA Quality	NETOAQ	Unreliable]	ppm
Fan Control					
ADI	23	Fan Status	FAN-S		SE RTU Fan Status
ADF	30	Fan Accumulated Runtime	FAN-RT	0	hr
ADI	24	Fan On Delay for Cool	FNONDLCL	0	sec
ADF	31	Duct Pressure Setpoint	DCTPRSSP	1.5	in wc
ADF	32	Duct Pressure Shutdwn Sp	DCTSDSP	4.5	in wc
ADI	25	Cont SF Oper in Occ Mode	FANONOCC	Yes	Yes/No
ADI	26	Trn Off Cnt Fn Opr St Ht	FNOFSTHT	Yes	Yes/No
ADF	33	Occ No Heat or Cl Pct Sp	FOPCT	50	%
ADF	34	Occ 1 Stage of Cl Pct Sp	1CSPCT	70	%
ADF	35	Occ 2 Stges of Cl Pct Sp	2CSPCT	80	%
ADF	36	Occ 3 Stges of Cl Pct Sp	3CSPCT	90	%
ADF	37	Occ 4 Stges of Cl Pct Sp	4CSPCT	100	%
ADF	38	Occ 1 Stage of Ht Pct Sp	1HSPCT	100	%
ADF	39	Occ 2 Stges of Ht Pct Sp	2HSPCT	100	%
ADF	40	Occ 3 Stges of Ht Pct Sp	3HSPCT	100	%
ADF	159	SZ VAV Minimum Fan Speed	SZVMNFNSPD	66	%
Cooling Control					
ADI	27	Clg Mode Ena For Oper	CLG-EN	Yes	No/Yes
ADI	28	Cooling Status	CLG-S		SE RTU Cooling Control Status
ADF	41	Min Runtime Clg Stage	MNRTCLST	3	min
ADI	29	OAT Cooling Cutout Ena	CLOACOEN	Yes	No/Yes
ADF	42	OAT Cooling Cutout	CLOACOSP	45	deg F
ADI	30	Economizer Loading Ena	ECNLD-EN	No	No/Yes
ADI	31	All Stgs Clg Off in Econ	CLOFFECN	No	No/Yes
ADI	32	Temp/Hum (Ret) Cntrl Ena	THCTRLEN	No	No/Yes
ADF	43	Temp/Humidity Sp	TEMPHMSP	50	%RH
ADF	44	Max Temp / Hum Sp Offset	MXTHSPOF	3	°F delta
ADF	45	Temp-Hum Value-Deg Offst	THVDGOFF	5	%RH
ADI	33	SAT Limit for Clg Ena	SATCLMEN	Yes	No/Yes
ADF	46	SAT Limit for Cooling Sp	SATCLMSP	50	deg F
ADF	47	VAV Clg SA Temp Upper Sp	SATUP-SP	60	deg F
ADF	48	VAV Cig SA Temp Lower Sp	SATLO-SP	55	deg F
ADF	49	VAV SA Temp Reset Sp	SATRSTSP	72	deg F
ADF	50	VAV Oper Clg SA Temp Sp	OPRVAVCLSP		deg F
ADF	51	CV Occupied Cooling Sp	CLGOCCSP	72	deg F
ADF	52	CV Unoccupied Cooling Sp	CLGUNCSP	85	deg F
ADF	53	CV Operating Cooling Sp	COPCLGSP		deg F
ADF	54	Altitude	ALTITUDE	0	ft

Table 2: N2 Protocol Mapping Table (Continued)

Point Type	Point Address	Long Name	Short Name	Value	Units
ADF	55	Refrig Systems Installed	REFSYS	4	
ADF	160	DAT Cooling Min SP	DATCLMSP	54	0 deg F
ADF	165	Staged Cooling Command	STGCLGCMD		%
ADF	168	VAV Unoccupied Clg Sp	VCLGUNCSP	85	deg F
Cooling Circuit (1)					
ADI	36	C1 Stage Enabled	C1-EN	Yes	Yes/No
ADF	56	C1 Stage Acc Runtime	C1-RT	0	hr
ADI	37	C1 Min On Time Remaining	C1ONTMR		min
ADI	38	C1 ASCD Time Remaining	C1ASCDTM		min
ADI	39	C1 High Pressure Lockout	HPS1-LO		Normal Lockout
ADI	40	C1 Low Pressure Lockout	LPS1-LO		Normal Lockout
ADI	41	C1 Freeze Cond Lckout	FS1-LO		Normal Lockout
Cooling Circuit (2)					
ADI	42	C2 Stage Enabled	C2-EN	Yes	Yes/No
ADF	57	C2 Stage Acc Runtime	C2-RT	0	hr
ADI	43	C2 Min On Time Remaining	C2ONTMR		min
ADI	44	C2 ASCD Time Remaining	C2ASCDTM		min
ADI	45	C2 High Pressure Lockout	HPS2-LO		Normal Lockout
ADI	46	C2 Low Pressure Lockout	LPS2-LO		Normal Lockout
ADI	47	C2 Freeze Cond Lckout	FS2-LO		Normal Lockout
Cooling Circuit (3)					
ADI	48	C3 Stage Enabled	C3-EN	Yes	Yes/No
ADF	58	C3 Stage Acc Runtime	C3-RT	0	hr
ADI	49	C3 Min On Time Remaining	C3ONTMR		min
ADI	50	C3 ASCD Time Remaining	C3ASCDTM		min
ADI	51	C3 High Pressure Lockout	HPS3-LO		Normal Lockout
ADI	52	C3 Low Pressure Lockout	LPS3-LO		Normal Lockout
ADI	53	C3 Freeze Cond Lckout	FS3-LO		Normal Lockout
Cooling Circuit (4)					
ADI	54	C4 Stage Enabled	C4-EN	Yes	Yes/No
ADF	59	C4 Stage Acc Runtime	C4-RT	0	hr
ADI	55	C4 Min On Time Remaining	C4ONTMR		min
ADI	56	C4 ASCD Time Remaining	C4ASCDTM		min
ADI	57	C4 High Pressure Lockout	HPS4-LO		Normal Lockout
ADI	58	C4 Low Pressure Lockout	LPS4-LO		Normal Lockout
ADI	59	C4 Freeze Cond Lckout	FS4-LO		Normal Lockout
Cooling Circuit Diagnostics (1)					
ADI	60	C1 Clg Circ Test Status	C1-TS		SE FDD Codes
ADF	60	C1 Superheat	C1-SUPHT		deg F
ADF	61	C1 Subcooling	C1-SUBCL		deg F

Table 2: N2 Protocol Mapping Table (Continued)

Point Type	Point Address	Long Name	Short Name	Value	Units
ADF	62	C1 Cond Temp over Amb	CT1O-AMB		deg F
ADF	63	C1 Efficiency Index	C1-EI		
ADF	64	C1 Capacity Index	C1-CI		
ADF	65	C1 Evap Temp Val Circuit	C1-ETVAL		deg F
ADF	66	C1 Cnd Temp Ovr Amb High	CT1OAMBH		deg F
ADF	67	C1 Cond Temp ovr Amb Low	CT1OAMBL		deg F
ADF	68	C1 Superheat High	C1-SUPHH		deg F
ADF	69	C1 Superheat Low	C1-SUPHL		deg F
ADF	70	C1 Subcool High	C1-SCHGH		deg F
ADF	71	C1 Subcool Low	C1-SCLOW		deg F
ADF	72	C1 Evaporating Temp High	C1-ETHGH		deg F
ADF	73	C1 Evaporating Temp Low	C1-ETLOW		deg F
Cooling Circuit Diagnostics (2)					
ADI	61	C2 Clg Circ Test Status	C2-TS		SE FDD Codes
ADF	74	C2 Superheat	C2-SUPHT		deg F
ADF	75	C2 Subcooling	C2-SUBCL		deg F
ADF	76	C2 Cond Temp over Amb	CT2O-AMB		deg F
ADF	77	C2 Efficiency Index	C2-EI		
ADF	78	C2 Capacity Index	C2-CI		
ADF	79	C2 Evap Temp Val Circuit	C2-ETVAL		deg F
ADF	80	C2 Cnd Temp Ovr Amb High	CT2OAMBH		deg F
ADF	81	C2 Cond Temp ovr Amb Low	CT2OAMBL		deg F
ADF	82	C2 Superheat High	C2-SUPHH		deg F
ADF	83	C2 Superheat Low	C2-SUPHL		deg F
ADF	84	C2 Subcool High	C2-SCHGH		deg F
ADF	85	C2 Subcool Low	C2-SCLOW		deg F
ADF	86	C2 Evaporating Temp High	C2-ETHGH		deg F
ADF	87	C2 Evaporating Temp Low	C2-ETLOW		deg F
Cooling Circuit Diagnostics (3)					
ADI	62	C3 Clg Circ Test Status	C3-TS		SE FDD Codes
ADF	88	C3 Superheat	C3-SUPHT		deg F
ADF	89	C3 Subcooling	C3-SUBCL		deg F
ADF	90	C3 Cond Temp over Amb	CT3O-AMB		deg F
ADF	91	C3 Efficiency Index	C3-EI		
ADF	92	C3 Capacity Index	C3-CI		
ADF	93	C3 Evap Temp Val Circuit	C3-ETVAL		deg F
ADF	94	C3 Cnd Temp Ovr Amb High	CT3OAMBH		deg F
ADF	95	C3 Cond Temp ovr Amb Low	CT3OAMBL		deg F
ADF	96	C3 Superheat High	C3-SUPHH		deg F
ADF	97	C3 Superheat Low	C3-SUPHL		deg F

Table 2: N2 Protocol Mapping Table (Continued)

Point Type	Point Address	Long Name	Short Name	Value	Units
ADF	98	C3 Subcool High	C3-SCHGH		deg F
ADF	99	C3 Subcool Low	C3-SCLOW		deg F
ADF	100	C3 Evaporating Temp High	C3-ETHGH		deg F
ADF	101	C3 Evaporating Temp Low	C3-ETLOW		deg F
Cooling Circuit Diagnostics (4)					
ADI	63	C4 Clg Circ Test Status	C4-TS		SE FDD Codes
ADF	102	C4 Superheat	C4-SUPHT		deg F
ADF	103	C4 Subcooling	C4-SUBCL		deg F
ADF	104	C4 Cond Temp over Amb	CT4O-AMB		deg F
ADF	105	C4 Efficiency Index	C4-EI		
ADF	106	C4 Capacity Index	C4-CI		
ADF	107	C4 Evap Temp Val Circuit	C4-ETVAL		deg F
ADF	108	C4 Cnd Temp Ovr Amb High	CT4OAMBH		deg F
ADF	109	C4 Cond Temp ovr Amb Low	CT4OAMBL		deg F
ADF	110	C4 Superheat High	C4-SUPHH		deg F
ADF	111	C4 Superheat Low	C4-SUPHL		deg F
ADF	112	C4 Subcool High	C4-SCHGH		deg F
ADF	113	C4 Subcool Low	C4-SCLOW		deg F
ADF	114	C4 Evaporating Temp High	C4-ETHGH		deg F
ADF	115	C4 Evaporating Temp Low	C4-ETLOW		deg F
Heating Control					
ADI	64	Htg Mode Enabled For Opr	HTG-EN	Yes	No/Yes
ADI	65	Heating Status	HTG-S		SE RTU Heating Control Status
ADI	66	SAT Limit for Htg Enable	SATHL-EN	Yes	No/Yes
ADF	116	SAT Limit for Htg Sp	SATHL-SP	135	deg F
ADF	117	OA Temp Htg Cutout Sp	OATHCOSP	75	deg F
ADI	67	Hot Water Freeze Stat	FSHW		Normal/Alarm
ADI	68	Heat Limit 1 Sw Lockout	LIMIT1LO		Normal Lockout
ADI	69	Heat Limit 2 Sw Lockout	LIMIT2LO		Normal Lockout
ADI	70	Heat Limit 3 Sw Lockout	LIMIT3LO		Normal Lockout
ADI	71	VAV Occupied Htg Enabled	VHTGOCEN	No	No/Yes
ADF	118	VAV Occupied Htg Sp	VHTGOCSP	68	deg F
ADI	72	VAV UnOccupied Htg Ena	VHTGUNEN	No	No/Yes
ADF	119	VAV Unoccupied Htg Sp	VHTGUNSP	60	deg F
ADF	120	VAV Operating Heating Sp	VOPHTGSP		deg F
ADI	73	Morning Warmup Enabled	MRNWRMEN	No	No/Yes
ADF	121	Wrmup-Return Air Temp Sp	WRMRATSP	70	deg F
ADF	122	CV Occupied Heating Sp	CVHTOCSP	68	deg F
ADF	123	CV Unoccupied Heating Sp	CVHTUNSP	60	deg F
ADF	124	CV Operating Heating Sp	CVHTOPSP		deg F

Table 2: N2 Protocol Mapping Table (Continued)

Point Type	Point Address	Long Name	Short Name	Value	Units
ADI	74	Morning Cooldown Enabled	MRNCLDEN	No	No/Yes
ADF	125	Cldwn-Return Air Temp Sp	CLDRATSP	74	deg F
ADI	75	Optimal Start Enabled	OST-EN	No	No/Yes
ADI	76	Occupancy BI Enabled	OCCBI-EN	No	No/Yes
ADF	126	Early Start Period	ERLYSTPD	60	min
ADF	128	Number of Limit Switches	NUMLIMSW	1	
ADF	161	DAT Max Heating SP	DATMHTSP	105	0 deg F
ADF	162	DAT Satisfied SP	DATSATSP	70	0 deg F
ADF	166	Staged Heating Command	STGHTGCMD		%
ADF	167	Proportional Heating Cmd	PROPHTGCMD		%
Heating Stage (1)					
ADF	129	Heating Stage 1 Runtime	H1-RT	0	hr
Heating Stage (2)					
ADF	130	Heating Stage 2 Runtime	H2-RT	0	hr
Heating Stage (3)					
ADF	131	Heating Stage 3 Runtime	H3-RT	0	hr
Hydronic Heat Control					
ADI	79	HW Heat Valve Rev Acting	HWVLVREV	No	No/Yes
ADF	132	HW Htg Stage 1 SAT Sp	HWH1SASP	120	deg F
ADF	133	HW Htg Stage 2 SAT Sp	HWH2SASP	150	deg F
ADI	80	HW Heat SAT Tempring Ena	SATEMPEN	No	No/Yes
ADF	134	HW Heat SAT Tempering Sp	SATEMPSP	40	deg F
Heat Pump Control					
ADI	81	Defrost Curve Selection	DEFCURVE	Curve 1	SE RTU Defrost Curves
ADI	83	Heat Pump Mode	HP-MODE	Heating	Heating/Cooling
Economizer Control					
ADI	84	Econ Enabled For Oper	ECON-EN	Yes	No/Yes
ADF	135	Econ Dmp Min Pos LS Fan	LSFNMINPOS	25	%
ADI	85	Econ Free Cooling Avail	FCAVAIL		No/Yes
ADI	86	Economizer Status	ECON-S		SE RTU Economizer Status
ADI	87	Free Clg Current Mode	FCMODE		Actual Economizer Type
ADI	88	Free Cooling Selection	FC-SEL	Auto	Economizer Type
ADF	136	Econ OA Temp Enable Sp	FCOATSP	55	deg F
ADF	137	Econ OA Enthalpy Sp	FCOAENSP	27	btu/lb
ADF	138	Low Ambient Econ Sp	LOWAMBSP	0	deg F
ADF	139	Low Ambient Econ Min Pos	LAMINPOS	0	%
ADF	140	Max IAQ Vent Econ Pos	MXIAQVENT	50	%
ADF	141	Econ Damper Position	OADMPPOS		%
ADF	142	Return Air Enthalpy	RA-ENTH		btu/lb
ADF	163	Econ Min OAD Pos	MINOA-PCT	20	%

Table 2: N2 Protocol Mapping Table (Continued)

Point Type	Point Address	Long Name	Short Name	Value	Units
ADI	89	Excess Outdoor Air	EXCOAALM		Normal/Alarm
ADI	90	Not Econ When Should	NOTECALM		Normal/Alarm
ADI	91	Damper Not Modulating	DMNOTALM		Normal/Alarm
ADI	92	Econ When Should Not	ECON-ALM		Normal/Alarm
ADI	115	Econ Fault Detection Ena	ECNFLTDET		Disable/Enable
Demand Ventilation Control					
ADI	93	Dmd Vent Mode of Oper	DMVMODE	Disabled	SE RTU DCV Mode
ADF	143	Dmd Vent Max Econ Pos	DMVMEPOS	50	%
ADF	144	Dmd Vent IAQ Sp	DMVIAQSP	1000	ppm
ADF	145	Dmd Vent Differential Sp	DVNTDFSP	600	ppm
Exhaust Fan Control					
ADF	146	Exhaust Fan Acc Runtime	EF-RT		hr
ADF	147	Building Pressure Sp	BLDG-SP	0.1	in wc
ADF	149	Exh Dmp Pos Exh Fan-On	EXDMFNON	80	%
ADF	150	Exh Dmp Pos Exh Fan-Off	EXDMFNOF	20	%
ADF	151	Econ Dmp Pos-Exh Fan On	ECNDMPFNON	60	%
ADF	152	Econ Dmp Pos-Exh Fan Off	ECNDMPFNOF	20	%
ADI	94	ERV Enabled	ERV-EN	No	No/Yes
ADI	95	ERV Unoccupied Fan Ena	ERVUNFNEN	No	No/Yes
Hot Gas Reheat (Dehumidification)					
ADI	96	HGR Enabled For Oper	HGR-EN	Yes	No/Yes
ADF	153	HGR Humidity Setpoint	HGRHUMSP	50	%RH
ADI	97	HGR Alternate Oper Ena	HGRALTEN	No	No/Yes
ADF	164	HGR Unocc Humidity Sp	HGRUNCHSP	50	%RH
ADI	116	HGR Enab For Unocc Mode	HGRUNC-EN	Disable	Disable/Enable
Air Monitor Station					
ADF	154	Outdoor Air Flow Sp	MOAFLWSP	10	cfm
ADF	155	Outdoor Air Flow	OA-FLOW		cfm
ADF	156	OA Intake Max Sensor Rng	MOARANGE	10000	cfm
ADI	117	Fresh Air Intake Enable	FRSHAIR-EN	Disable	Disable/Enable
Shutdown Input/Smoke					
ADI	98	Operating Purge Command	OPRPRG-C		False/True
ADI	99	Purge Command Source	PRGCMSRC		Effective Input Source
ADI	100	Local Purge Cmd Input	PURGE-S		False/True
ADI	101	Net Ovrd Purge Command	NETPURGE	FALSE	False/True
ADI	102	Smoke Detector	SMOKE-A		Normal/Alarm
System Controllers					
ADI	103	Econ Controller	ECONCNT		EIO Connection Status
ADI	104	4 Stage Controller	4STGCNT		EIO Connection Status

Table 2: N2 Protocol Mapping Table (Continued)

Point Type	Point Address	Long Name	Short Name	Value	Units
ADI	105	FDD Master Controller	FDDMCNT		EIO Connection Status
ADI	106	FDD Slave Controller	FDDSCNT		EIO Connection Status
ADI	107	Stepped Heat Controller	STPHTCNT		EIO Connection Status
Network					
ADI	108	End of Line Switch On	EOL-ON		No/Yes

S1-03521670000-A-1114
Supersedes: Nothing

York International Corporation
5005 York Drive
Norman, OK 73069