

Scroll SC-EQ BAS Points List

Rev 2.4

January 11, 2021

SC-EQ Software Version 3.5.0.11

Long Name (BACnet Object Description)	Short Name (BACnet Object Name)	Notes	IP Units	SI Units	Enum Set	BACnet Object & Instance	N2 Metasys Address	MODBUS Address	MODBUS Scale	MODBUS Data Type	LON Profile Name	LON SNVT Type
Remote Setpoint [99=Auto]	REMOTE SETPOINT		*F	*C		AV1	ADF 1	0001	X10	Signed	nviCoolSetPt	SNVT_temp_p
Sys 1 Remote Setpoint	SYS 1 REM SETP		PSIG	BARG		AV1	ADF 1	0001	X10	Signed	nviS1CoolSetPt	SNVT_temp_p
Remote Load Limit Stage [0, 1, 2]	REM LOAD LIMIT STAGE		None	None		AV2	ADF 2	0002	X10	Signed	nviLoadLimStage	SNVT_count
Remote Cooling Range	REM COOLING RANGE		*F (diff)	*C (diff)		AV3	ADF 3	0003	X10	Signed	nviCoolingRange	SNVT_temp_p
Remote Heating Setpoint [999=Auto]	REM HEATING SETP		*F	*C		AV3	ADF 3	0003	X10	Signed	nviHeatSetPt	SNVT_temp_p
Sys 2 Remote Setpoint	SYS 2 REM SETP		PSIG	BARG		AV3	ADF 3	0003	X10	Signed	nviS2CoolSetPt	SNVT_temp_p
Remote Heatpump Mode [0=Pnl, 1=Cool, 2=Heat]	REM HEATPUMP MODE		None	None		AV4	ADF 4	0004	X10	Signed	nviHeatPumpMode	SNVT_count
Remote Start / Stop Command [0=Stop, 1=Run]	REM START STOP CMD		None	None	0=Stop, 1=Run	BV1	BD 1	0061	N/A	Signed	nviChillerEnable	SNVT_switch
Sys 1 Remote Start / Stop Command [0=Stop, 1=Run]	SYS1 REM START STOP CMD		None	None	0=Stop, 1=Run	BV1	BD 1	0061	N/A	Signed	nviS1Enable	SNVT_switch
Sys 2 Remote Start / Stop Command [0=Stop, 1=Run]	SYS2 REM START STOP CMD		None	None	0=Stop, 1=Run	BV2	BD 2	0062	N/A	Signed	nviS2Enable	SNVT_switch
			None	None		BV3	BD 3	0063	N/A	Signed	nviYTS01p009	SNVT_switch
History Buffer 1 Request [0=Live Data, 1=History 1 Data]	HISTORY REQUEST		None	None	0=Live Data, 1=History 1 Data	BV4	BD 4	0064	N/A	Signed	nviHistRequest	SNVT_switch
Leaving Chilled Liquid Temp	LEAVING CHILLED LIQ TEMP		*F	*C		AV5	ADF 5	0005	X10	Signed	nvoLvgCHWTemp	SNVT_temp_p
Entering Chilled Liquid Temp	ENTERING CHILLED LIQ TEMP		*F	*C		AV6	ADF 6	0006	X10	Signed	nvoEntCHWTemp	SNVT_temp_p
Leaving Liquid Temp Hot	LEAVING LIQ TEMP HOT	If YCWL	*F	*C		AV7	ADF 7	0007	X10	Signed	nvoLvgHotWTemp	SNVT_temp_p
Discharge Air Temp	DISCHARGE AIR TEMP	If Cond Unit	*F	*C		AV8	ADF 8	0008	X10	Signed	nvoDischAirTemp	SNVT_temp_p
Return Liquid Temp Hot	RETURN LIQ TEMP HOT	If YCWL	*F	*C		AV8	ADF 8	0008	X10	Signed	nvoEntHotWTemp	SNVT_temp_p
Sys 1 Suction Temperature	SYS 1 SUCT TEMP	If EEV or R-410a	*F	*C		AV9	ADF 9	0009	X10	Signed	nvoS1SuctTemp	SNVT_temp_p
Outside Ambient Air Temperature	OUTSIDE AMBIENT AIR TEMP		*F	*C		AV10	ADF 10	0010	X10	Signed	nvoOutsdAirTemp	SNVT_temp_p
Sys 1 Suction Superheat	SYS 1 SUCT SUPERHEAT	If EEV	*F (diff)	*C (diff)		AV11	ADF 11	0011	X10	Signed	nvoS1SuctSuperht	SNVT_temp_p
Sys 1 Run Time [Sec]	SYS 1 RUN TIME	Seconds	Sec	Sec		AV12	ADF 12	0012	X10	Signed	nvoS1RunTime	SNVT_time_sec
Sys 1 Suction Pressure	SYS 1 SUCT PRESS		PSIG	BARG		AV13	ADF 13	0013	X10	Signed	nvoS1SuctPress	SNVT_press
Sys 1 Discharge Pressure	SYS 1 DISCH PRESS		PSIG	BARG		AV14	ADF 14	0014	X10	Signed	nvoS1DischPress	SNVT_press
Sys 1 Suction Temperature [Cond Unit]	SYS 1 SUCT TEMP COND UNIT	If Cond Unit	*F	*C		AV15	ADF 15	0015	X10	Signed	nvoS1SuctTempCND	SNVT_temp_p
Sys 1 Cooler Inlet Refrigerant Temp	SYS 1 COOLER INLET REF TEMP	If R-407c	*F	*C		AV15	ADF 15	0015	X10	Signed	nvoS1ClrInRefTmp	SNVT_temp_p
Sys 1 Defrost Temperature	SYS 1 DEFROST TEMP	If Heatpump	*F	*C		AV16	ADF 16	0016	X1	Signed	nvoS1DefrostTemp	SNVT_temp_p
Sys 1 EEV Output Percent	SYS 1 EEV OUTPUT PCT	If EEV	%	%		AV17	ADF 17	0017	X1	Signed	nvoS1EEVOutPct	SNVT_lev_percent
Sys 1 Anti-Recycle Timer [Sec]	SYS 1 ANTI RECYCLE TIMER		None	None		AV18	ADF 18	0018	X10	Signed	nvoS1AntiRecycle	SNVT_time_sec
Anti-Coincident Timer [Sec]	ANTI COINCIDENT TIMER		None	None		AV19	ADF 19	0019	X10	Signed	nvoAntiCoincTmr	SNVT_time_sec
Sys 2 Suction Temperature	SYS 2 SUCT TEMP	If EEV or R410a and two system unit	*F	*C		AV20	ADF 20	0020	X10	Signed	nvoS2SuctTemp	SNVT_temp_p
Sys 2 Run Time [Sec]	SYS 2 RUN TIME	If two system unit	Sec	Sec		AV21	ADF 21	0021	X10	Signed	nvoS2RunTime	SNVT_time_sec
Sys 2 Suction Pressure	SYS 2 SUCT PRESS	If two system unit	PSIG	BARG		AV22	ADF 22	0022	X10	Signed	nvoS2SuctPress	SNVT_press
Sys 2 Discharge Pressure	SYS 2 DISCH PRESS	If two system unit	PSIG	BARG		AV23	ADF 23	0023	X10	Signed	nvoS2DschPress	SNVT_press
Sys 2 Suction Temperature [Cond Unit]	SYS 2 SUCT TEMP COND UNIT	If Cond Unit and two system unit	*F	*C		AV24	ADF 24	0024	X1	Signed	nvoS2SuctTempCND	SNVT_temp_p
Sys 2 Cooler Inlet Refrigerant Temp	SYS 2 COOLER INLET REF TEMP	If R-407c and two system unit	*F	*C		AV24	ADF 24	0024	X1	Signed	nvoS2ClrInRefTmp	SNVT_temp_p
Sys 2 Defrost Temperature	SYS 2 DEFROST TEMP	If Heatpump and two system unit	*F	*C		AV25	ADF 25	0025	X1	Signed	nvoS2DefrostTemp	SNVT_temp_p
Sys 2 Suction Superheat	SYS 2 SUCT SUPERHEAT	If EEV and two system unit	*F (diff)	*C (diff)		AV26	ADF 26	0026	X1	Signed	nvoS2SuctSuperht	SNVT_temp_p
Sys 2 Anti-Recycle Timer [Sec]	SYS 2 ANTI RECYCLE TIMER	If two system unit	None	None		AV27	ADF 27	0027	X1	Signed	nvoS2AntiRecycle	SNVT_time_sec
Sys 2 EEV Output Percent	SYS 2 EEV OUTPUT PCT	If EEV and two system unit	%	%		AV28	ADF 28	0028	X1	Signed	nvoS2EEVOutPct	SNVT_lev_percent
Number of Compressors	NUMBER COMPRESSORS		None	None		AV29	ADF 29	0029	X10	Signed	nvoNumberOfCompr	SNVT_count
Sys 1 Alarm [0=No Alarm, 1=Alarm]	SYS 1 ALARM				0=No Alarm, 1=Alarm Active	BV5	BD 5	0065	N/A	Signed	nvoS1Alarm	SNVT_switch
Sys 2 Alarm [0=No Alarm, 1=Alarm]	SYS 2 ALARM	If two system unit			0=No Alarm, 1=Alarm Active	BV6	BD 6	0066	N/A	Signed	nvoS2Alarm	SNVT_switch
Evaporator Heater Status	EVAPORATOR HEATER STATUS				0=Off, 1=On	BV7	BD 7	0067	N/A	Signed	nvoEvapHeater	SNVT_switch
Evaporator Pump Status	EVAPORATOR PUMP STATUS				0=Off, 1=On	BV8	BD 8	0068	N/A	Signed	nvoEvapPump	SNVT_switch
Sys 1 Comp 1 Run	SYS 1 COMP 1 RUN				0=Off, 1=On	BV9	BD 9	0069	N/A	Signed	nvoS1Comp1Run	SNVT_switch
Sys 2 Comp 1 Run	SYS 2 COMP 1 RUN	If two system unit			0=Off, 1=On	BV10	BD 10	0070	N/A	Signed	nvoS2Comp1Run	SNVT_switch
Sys 1 Liquid Line Solenoid Valve	SYS 1 LIQUID LINE SOL VALVE	If Not Heatpump			0=Off, 1=On	BV11	BD 11	0071	N/A	Signed	nvoS1LiqLineSol	SNVT_switch
Sys 1 Mode Solenoid Valve	SYS 1 MODE SOL VALVE	If Heatpump			0=Off, 1=On	BV11	BD 11	0071	N/A	Signed	nvoS1ModeSol	SNVT_switch
Sys 1 Hot Gas Bypass Valve	SYS 1 HOT GAS BYPASS VALVE	If Not Heatpump			0=Off, 1=On	BV12	BD 12	0072	N/A	Signed	nvoS1HtGasBypCmd	SNVT_switch
						BV12	BD 12	0072	N/A			
Sys 1 Comp 2 Run	SYS 1 COMP 2 RUN				0=Off, 1=On	BV13	BD 13	0073	N/A	Signed	nvoS1Comp2Run	SNVT_switch
Sys 2 Comp 2 Run	SYS 2 COMP 2 RUN	If two system unit			0=Off, 1=On	BV14	BD 14	0074	N/A	Signed	nvoS2Comp2Run	SNVT_switch
Sys 2 Liquid Line Solenoid Valve	SYS 2 LIQUID LINE SOL VALVE	If Not Heatpump and two system unit			0=Off, 1=On	BV15	BD 15	0075	N/A	Signed	nvoS2LiqLineSol	SNVT_switch
Sys 2 Mode Solenoid Valve	SYS 2 MODE SOL VALVE	If Heatpump and two system unit			0=Off, 1=On	BV15	BD 15	0075	N/A	Signed	nvoS2ModeSol	SNVT_switch
Lead System Number [0=Sys1, 1=Sys2]	LEAD SYSTEM NUMBER				0=Sys1, 1=Sys2	BV16	BD 16	0076	N/A	Signed	nvoLeadSysNumber	SNVT_switch
Sys 1 Comp 3 Run	SYS 1 COMP 3 RUN				0=Off, 1=On	BV17	BD 17	0077	N/A	Signed	nvoS1Comp3Run	SNVT_switch
Sys 2 Comp 3 Run	SYS 2 COMP 3 RUN	If two system unit			0=Off, 1=On	BV18	BD 18	0078	N/A	Signed	nvoS2Comp3Run	SNVT_switch
Cooling Type [0=Water, 1=Glycol]	COOLING TYPE				0=Water, 1=Glycol	BV19	BD 19	0079	N/A	Signed	nvoCoolingType	SNVT_switch
					0=Standard Ambient, 1=Low Ambient							
Ambient Control Mode [0=StdAmb, 1=LowAmb]	AMBIENT CONTROL MODE				Ambient	BV20	BD 20	0080	N/A	Signed	nvoAmbCtrlMode	SNVT_switch
Local Remote Control Mode [0=Local, 1=Remote]	LOCAL REMOTE CONTROL MODE				0=Local, 1=Remote	BV21	BD 21	0081	N/A	Signed	nvoLocRemCtrlMde	SNVT_switch
Display Units [0=Imperial, 1=SI]	DISPLAY UNITS				0=Imperial, 1=SI	BV22	BD 22	0082	N/A	Signed	nvoDisplayUnits	SNVT_switch
Lead Lag Control Mode [0=Manual, 1=Auto]	LEAD LAG CONTROL MODE				0=Manual, 1=Auto	BV23	BD 23	0083	N/A	Signed	nvoLedLagCtrlMde	SNVT_switch

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Sys 2 Hot Gas Bypass Valve	SYS 2 HOT GAS BYPASS VALVE	If two system unit			0=Off, 1=On	BV24	BD 24	0084	N/A	Signed	nvoS2HtGasBypCmd	SNVT_switch
Sys 1 Operational Code	SYS 1 OPERATIONAL CODE		None	None	See Status Codes	MV1	N/A	N/A	N/A	Unsigned	N/A	SNVT_count
Sys 1 Operational Code AV	SYS 1 OPERATIONAL CODE AV		None	None	See Status Codes	AV501	ADI 1	0030	X1	Unsigned	nvoS1OperCode	SNVT_count
Sys 1 Fault Code	SYS 1 FAULT CODE		None	None	See Status Codes	MV2	N/A	N/A	N/A	Unsigned	N/A	SNVT_count
Sys 1 Fault Code AV	SYS 1 FAULT CODE AV		None	None	See Status Codes	AV502	ADI 2	0031	X1	Unsigned	nvoS1FaultCode	SNVT_count
Sys 2 Operational Code	SYS 2 OPERATIONAL CODE	If two system unit	None	None	See Status Codes	MV3	N/A	N/A	N/A	Unsigned	N/A	SNVT_count
Sys 2 Operational Code AV	SYS 2 OPERATIONAL CODE AV	If two system unit	None	None	See Status Codes	AV503	ADI 3	0032	X1	Unsigned	nvoS2OperCode	SNVT_count
Sys 2 Fault Code	SYS 2 FAULT CODE	If two system unit	None	None	See Status Codes	MV4	N/A	N/A	N/A	Unsigned	N/A	SNVT_count
Sys 2 Fault Code AV	SYS 2 FAULT CODE AV	If two system unit	None	None	See Status Codes	AV504	ADI 4	0033	X1	Unsigned	nvoS2FaultCode	SNVT_count
						AV405	ADI 5	0034	X1	Signed		
Sys 1 Condenser Fan Stage	SYS 1 COND FAN STAGES RUN		None	None		AV406	ADI 6	0035	X1	Signed	nvoS1CNDFanStage	SNVT_count
						AV407	ADI 7	0036	X1	Signed		
Sys 2 Condenser Fan Stage	SYS 2 COND FAN STAGES RUN	If two system unit	None	None		AV408	ADI 8	0037	X1	Signed	nvoS2CNDFanStage	SNVT_count
						AV409	ADI 9	0038	X1	Signed		
					0=Leaving Water, 1=Return Water, 2=Discharge Air, 3=Suction Press, 4=Heatpump Cooling, 5=Heatpump Heating	MV10	N/A	N/A	N/A	Signed	N/A	SNVT_count
Unit Ctrl Mode [0=LW, 1=RW, 2=DA, 3=SP, 4=HC, 5=HP]	UNIT CONTROL MODE		None	None	0=Leaving Water, 1=Return Water, 2=Discharge Air, 3=Suction Press, 4=Heatpump Cooling, 5=Heatpump Heating	AV505	ADI 10	0039	X1	Signed	nvoUnitCtrlSrce	SNVT_count
Unit Ctrl Mode AV [0=LW, 1=RW, 2=DA, 3=SP, 4=HC, 5=HP]	UNIT CONTROL MODE AV		None	None		AV30	ADF 30	0040	X1	Signed	nvoAntiRecTmePrg	SNVT_time_sec
Anti-Recycle Time Programmed	ANTI RECYCLE TIME PROG		None	None		AV31	ADF 31	0041	X1	Signed	nvoLoLvgCHWTOFF	SNVT_temp_p
Low Leaving Chilled Liquid Temp Cutout	LOW LEAVING CHILL LIQ CUTOUT		*F	*C		AV32	ADF 32	0042	X1	Signed	nvoLoAmbTempOff	SNVT_temp_p
Low Ambient Temp Cutout	LOW AMBIENT TEMP CUTOUT		*F	*C		AV33	ADF 33	0043	X1	Signed	nvoLoSuctPrsOffH	SNVT_press
Low Suction Press Cutout Heating	LOW SUCT PRESS CUTOUT HEATING	If Heatpump	PSIG	BARG		AV34	ADF 34	0044	X10	Signed	nvoLoSuctPrsOffC	SNVT_press
Low Suction Press Cutout Cooling	LOW SUCT PRESS CUTOUT COOLING		PSIG	BARG		AV35	ADF 35	0045	X1	Signed	nvoHlDschPrsOff	SNVT_press
High Discharge Press Cutout	HIGH DISCH PRESS CUTOUT		PSIG	BARG		AV36	ADF 36	0046	X1	Signed	nvoCoolingSetPt	SNVT_temp_p
Cooling Setpoint	COOLING SETPOINT	If not Cond Unit SP Control	*F	*C		AV36	ADF 36	0046	X1	Signed	nvoS1CoolSetPt	SNVT_temp_p
Sys 1 Cooling Setpoint	SYS 1 COOLING SETPOINT	If Cond Unit SP Control	PSIG	BARG		AV37	ADF 37	0047	X1	Signed	nvoCoolingRange	SNVT_temp_p
Cooling Range	COOLING RANGE	If not Cond Unit SP Control	*F (diff)	*C (diff)		AV37	ADF 37	0047	X1	Signed	nvoS1CoolingRnge	SNVT_press
Sys 1 Cooling Range	SYS 1 COOLING RANGE	If Cond Unit SP Control	PSIG	BARG		AV38	ADF 38	0048	X1	Signed	nvoS2CoolSetPt	SNVT_press
Sys 2 Cooling Setpoint	SYS 2 COOLING SETPOINT	If Cond Unit SP Control	PSIG	BARG		AV38	ADF 38	0048	X1	Signed	nvoHeatSetPt	SNVT_temp_p
Heating Setpoint	HEATING SETPOINT	If Heatpump OR YCWL HP Mode	*F	*C		AV39	ADF 39	0049	X1	Signed	nvoS2CoolingRnge	SNVT_press
Sys 2 Cooling Range	SYS 2 COOLING RANGE	If Cond Unit SP Control	PSIG	BARG		AV39	ADF 39	0049	X1	Signed	nvoHeatingRange	SNVT_temp_p
Heating Range	HEATING RANGE	If Heatpump	*F (diff)	*C (diff)		AV40	ADF 40	0050	X1	Signed	nvoS1DschTemp	SNVT_temp_p
Sys 1 Discharge Temperature	SYS 1 DISCH TEMP	If EEV	*F	*C		AV41	ADF 41	0051	X1	Signed	nvoS1DschSuperht	SNVT_temp_p
Sys 1 Discharge Superheat	SYS 1 DISCH SUPERHEAT	If EEV	*F (diff)	*C (diff)		AV42	ADF 42	0052	X1	Signed	nvoS2DschTemp	SNVT_temp_p
Sys 2 Discharge Temperature	SYS 2 DISCH TEMP	If EEV and two system unit	*F	*C		AV43	ADF 43	0053	X1	Signed	nvoS2DschSuperht	SNVT_temp_p
Sys 2 Discharge Superheat	SYS 2 DISCH SUPERHEAT	If EEV and two system unit	*F (diff)	*C (diff)		BV25	BD 25	0085	N/A	Signed	nvoBivalentHtRun	SNVT_switch
Bivalent Heat Source/Tray Heater	BIVALENT HT SOURCE TRAY HT	If Heatpump			0=Off, 1=On	BV26	BD 26	0086	N/A	Signed		
						BV27	BD 27	0087	N/A	Signed		
						BV28	BD 28	0088	N/A	Signed		
						BV29	BD 29	0089	N/A	Signed		
						AV109	ADF 48	0105	X10	Signed		
						AV110	ADF 49	0106	X10	Signed		
						AV111	ADF 50	0107	X10	Signed		
						AV112	ADF 51	0108	X10	Signed		
						AV113	ADF 52	0109	X10	Signed		
						AV114	ADF 53	0110	X10	Signed		
						AV115	ADF 54	0111	X10	Signed		
Sys 1 Comp 1 Run Hours	SYS 1 COMP 1 RUN HOURS		Hr	Hr		AV116	ADF 55	0112	X1	Signed	nvoS1C1RunHours	SNVT_count
Sys 1 Comp 2 Run Hours	SYS 1 COMP 2 RUN HOURS		Hr	Hr		AV117	ADF 56	0113	X1	Signed	nvoS1C2RunHours	SNVT_count
Sys 1 Comp 3 Run Hours	SYS 1 COMP 3 RUN HOURS		Hr	Hr		AV118	ADF 57	0114	X1	Signed	nvoS1C3RunHours	SNVT_count
						AV119	ADF 58	0115	X10	Signed		
						AV120	ADF 59	0116	X1	Signed		
						AV121	ADF 60	0117	X1	Signed		
						AV122	ADF 61	0118	X10	Signed		
						AV123	ADF 62	0119	X10	Signed		
						AV124	ADF 63	0120	X10	Signed		
Sys 2 Comp 1 Run Hours	SYS 2 COMP 1 RUN HOURS		Hr	Hr		AV125	ADF 64	0121	X1	Signed	nvoS2C1RunHours	SNVT_count
Sys 2 Comp 2 Run Hours	SYS 2 COMP 2 RUN HOURS		Hr	Hr		AV126	ADF 65	0122	X1	Signed	nvoS2C2RunHours	SNVT_count
Sys 2 Comp 3 Run Hours	SYS 2 COMP 3 RUN HOURS		Hr	Hr		AV127	ADF 66	0123	X1	Signed	nvoS2C3RunHours	SNVT_count
						AV128	ADF 67	0124	X1	Signed		
						AV129	ADF 68	0125	X1	Signed		

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Scroll Operational Code (P56, P58)	
*NOTE: for BACnet MSV values add 1 to number	
Code	P56, P58
0	No Abnormal Condition
1	Unit Switch Off
2	System Switch Off
3	Lockout
4	Unit Fault
5	System Fault
6	Remote Shutdown
7	Daily Schedule Shutdown
8	No Run Permissive
9	No Cool Load
10	Anti-Coincidence Timer Active
11	Anti-Recycle Timer Active
12	Manual Override
13	Suction Limiting
14	Discharge Limiting
15	Current Limiting
16	Load Limiting
17	Compressor(s) Running
18	Heat pump Load Limiting
19	Pumping Down

Scroll Fault/Inhibit Code (P57, P59)	
*NOTE: for BACnet MSV values add 1 to number	
Code	P57, P59
0	No Fault
1	VAC Under Voltage
2	Low Ambient Temperature
3	High Ambient Temperature
4	Low Leaving Chilled Liquid Temp
5	High Discharge Pressure
6	High Differential Oil Pressure
7	Low Suction Pressure
8	High Motor Current
9	LLSV Not On
10	Low Battery Warning
11	High Oil Temperature
12	High Discharge Temperature
13	Improper Phase Rotation
14	Low Motor Current / MP / HPCO
15	Motor Current Unbalanced
16	Low Differential Oil Pressure
17	Ground Fault
18	MP/HPCO Fault
19	Low Evaporator Temperature
20	Incorrect Refrigerant Programmed
21	Power Failure, Manual Reset Required
22	Unit Motor Current
23	Low Superheat
24	Sensor Fault
25	Discharge Inhibit
26	MP/HPCO Inhibit
27	Pump Trip
28	Pump Fail Make Flow
29	High Ambient Temperature
30	Anti-Vacuum Low Pressure Cutout
31	Flow Switch Open
32	Leaving Chilled Liquid Temperature Sensor Fault