FUNCTIONAL PROFILE:

GOLDen GATE Lonworks FTT-10, TBLZ-3-1-1-41, Version 1.00

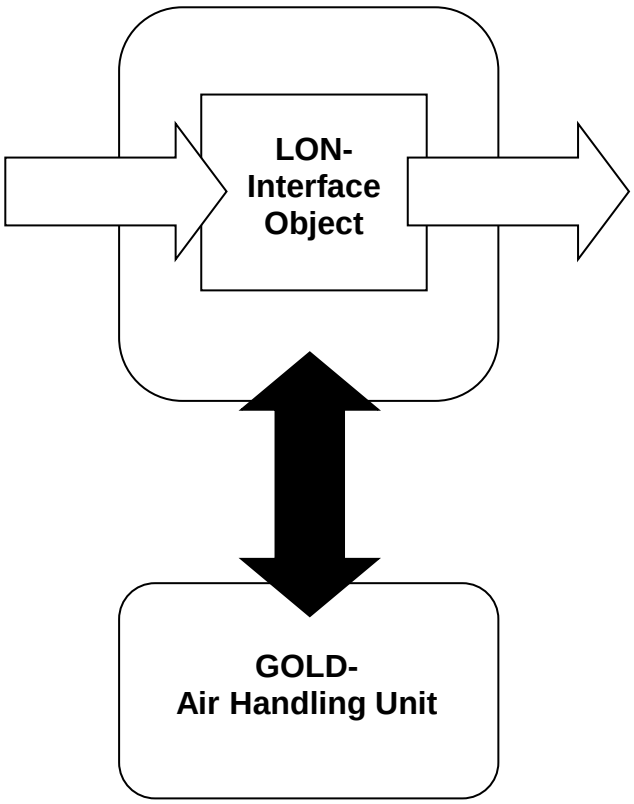
GOLD RX/PX/CX/SD, GENERATION E

Applicable to program version 1.10 and newer versions

General

This document describes the profile at the GOLD-LON interface.
The LON interface is a separate communication unit that solely transfers data to and from the control system in the GOLD air handling unit.
This edition of the GOLD-LON interface should be used for monitoring GOLD RX/PX/CX/SD generation E, across a LON bus.
It is not possible to override the physical inputs of the GOLD air handling unit, only monitor them across the LON bus.
The temperature and air flow set points can be adjusted across the LON network. The functions in the GOLD control system can be adjusted, enabled or disabled. The integrated switching clock can also be set to the current time.
The interface is normally equipped with a Transceiver for Twisted Pair Open Topology (TP/FT-10). This is a ready-to-use module, developed and accepted by Echelon.
The LON software in the interface supports the self-documentation and Wink function and thus helps with installing nodes across a network manager.
The network variables are to SNVT Standard.
The LON Interface can be illustrated as follow:

Figure 1
Functional profile



Power-Up State

All the input variables have a 0 reading before communication with the GOLD air handling unit has been established.
When communication with the GOLD unit has been in progress for about 60 seconds, all the input variables have been upgraded with the values from the GOLD air handling unit's internal Flash.
This means that the input variables are always upgraded after a power failure and therefore always indicate the current value, as long as the communication is OK:

LED/Keyed Functions

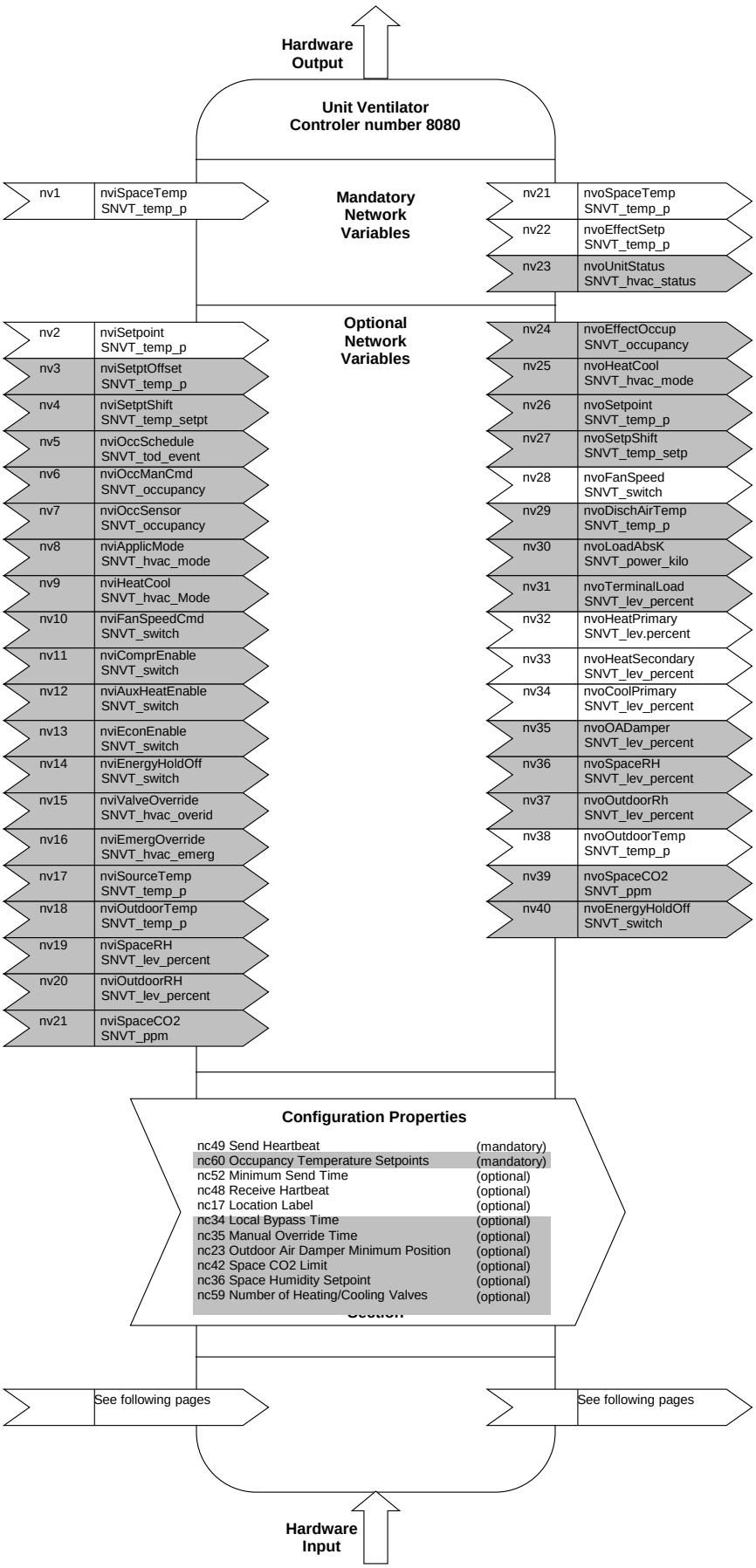
Normal operation:
The "Module Status" LED will flash green.
The "Serial Status" LED will flash green whenever acknowledged communication with the GOLD takes place.

Service:
The "Service" LED will flash if the node has not been configured. Configuration is normally carried out by a LON manager. While the LON manager is configuring the node, the operator will be requested to depress "servicepin" to identify the node. The node has integrated self-identification and self-description of the parameters.

Wink Function

This command can be used for identifying the GOLD air handling unit.
The "Serial Status" LEDs green and red flash alternately for 15 seconds while the Wink command is being transmitted to the LON interface.
This input varable can be used for checking whether the LON network is intact up to the LON interface and for identifying a specific air handling unit if several units are connected to the same network.

Figure 2
Functional profile number 8080 of LonMark Unit Ventilator object details(variables not implemented in GOLD are greyed).



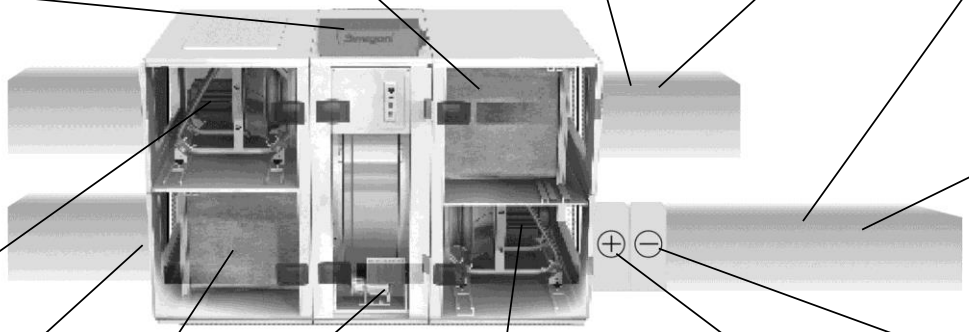
Extract air filter pressure level	nvoEA_filterLev
EA filter pressure level limit	nvoEA_filteralr

EA Duct pressure	nvoEF_pressure
EA Low speed pressure setpoint	nviEF_LSpressure
EA High speed pressure setpoint	nviEF_HSpressure

EA/Room temperature	nvoEAtemp
EA/Room temperature setpoint	nviEAtempset
SA Min temperature setpoint	nviMinSAtemp
SA Max temperature setpoint	nviMaxSAtemp

Operation level	nvoOperationLev
Communication operation level	nviComOperation
Operation active	nvoOP_relay
Low speed active	nvoLS_relay
High speed active	nvoHS_relay
Damper active	nvoDamper_relay
Triggered alarm #1	nvoTriggAlarm1
A-alarm active	nvoA_alarm_relay
B-alarm active	nvoB_alarm_relay
Alarm reset	nviAlarm_reset

SA Duct pressure	nvoSF_pressure
SA Low speed pressure point	nviSF_LSpressure
SA High speed pressure point	nviSF_HSpressure



SA Temperature	nvoSAtemp
SA Temperature setpoint	nviSetpoint
ERS 1 Diff	nviERS1diff

EA Airflow	nvoEF_flow
EA Fan level	nvoEF_speed
EA Low speed airflow setpoint	nviEF_LSflow
EA High speed airflow setpoint	nviEF_HSflow

Cooling level	nvoCoolPrimary
Cool output 1	nvoCool_1_relay
Cool output 2	nvoCool_2_relay

Outdoor temperature	nvoOUTtemp

Supply air filter pressure level	nvoSA_filterLev
SA filter pressure level limit	nvoSA_filteralr

Heat exchange regulator	nvoHeatPrimaryRe

SA Airflow	nvoSF_flow
SA Fan level	nvoFanSpeed
SA Low speed airflow setpoint	nviSF_LSflow
SA High speed airflow setpoint	nviSF_HSflow

Reheat level	nvoHeatSecondary
Heat output	nvoHeat_relay
Anti frost temperature	nvoFrosttemp

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
				Alarm settings					
0	100	nviAlarm_reset	SNVT_switch	**Alarm Reset Act** Resets all active alarms	0	1		0	
1	101	nvoAlarm_reset		**Alarm Reset**					
2	104	nviInt_fire_func	SNVT_switch	**Int Fire Al Act**	0	1		0	
3	105	nvoInt_fire_func		**Int Fire Al**					
4	106	nviInt_fire_ReFu	SNVT_switch	**Int Fire Al Res Func Act** 0=manual reset, 1=auto reset	0	1		0	
5	107	nvoInt_fire_ReFu		**Int Fire Al Res Func**					
6	112	nviExt_fire1_ReF	SNVT_switch	**Ext Fire Al1 Res Func Act** 0=manual reset, 1=auto reset	0	1		0	
7	113	nvoExt_fire1_ReF		**Ext Fire Al1 Res Func**					
8	114	nviExt_fire2_ReF	SNVT_switch	**Ext Fire Al2 Res Func Act** 0=manual reset, 1=auto reset	0	1		0	
9	115	nvoExt_fire2_ReF		**Ext Fire Al2 Res Func**					
10	120	nviExt_Alr1_ReFu	SNVT_switch	**Ext Al1 Res Func Act** 0=manual reset, 1=auto reset	0	1		0	
11	121	nvoExt_Alr1_ReFu		**Ext Al1 Res Func**					
12	122	nviExt_Alr2_ReFu	SNVT_switch	**Ext Al2 Res Func Act** 0=manual reset, 1=auto reset	0	1		0	
13	123	nvoExt_Alr2_ReFu		**Ext Al2 Res Func**					
14	128	nviExt_alr1_func	SNVT_switch	**Ext Al1 Cond Func Act** 0=alarm at closed contact, 1=alarm at open contact	0	1		0	
15	129	nvoExt_alr1_func		**Ext Al1 Cond Func**					
16	130	nviExt_alr2_func	SNVT_switch	**Ext Al2 Cond Func Act** 0=alarm at closed contact, 1=alarm at open contact	0	1		0	
17	131	nvoExt_alr2_func		**Ext Al2 Cond Func**					
				Operation level/alarm					
18	200	nvoOP_relay	SNVT_switch	**Operating** Relay output status	0	1			
19	201	nvoDamper_relay	SNVT_switch	**Damper** Relay output status	0	1			
20	202	nvoLS_relay	SNVT_switch	**Low Spd** Low speed operation status	0	1			
21	203	nvoHS_relay	SNVT_switch	**High Spd** High speed operation status	0	1			
22	204	nvoNH_active	SNVT_switch	**Int nightheat**	0	1			
23	205	nvoMB_active	SNVT_switch	**Morning bst**	0	1			
24	206	nvoHB_active	SNVT_switch	**Heat bst**	0	1			
25	207	nvoCB_active	SNVT_switch	**Cooling boost**	0	1			
26	208	nvoNC_active	SNVT_switch	**Smrnight Cool**	0	1			
27	212	nvoA_alarm_relay	SNVT_switch	**Alrm A** Any alarm with priority class A active	0	1			
28	213	nvoB_alarm_relay	SNVT_switch	**Alrm B** Any alarm with priority class B active	0	1			
				Heat exchange					
29	216	nvoHX_active	SNVT_switch	**HX op active** HX status	0	1			
30	217	nvoHX_recovery	SNVT_switch	**HX recovery active** HX cool recovery status	0	1			
31	218	nvoHX_defrost	SNVT_switch	**HX defrost active** HX defrost status	0	1			

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
32	221	nvoRHX_rotation	SNVT_switch	**R.HX. Rotation Monitor** RHX speed monitor status	0	1			
33	226	nvoCHX_relay	SNVT_switch	**C.HX. Pump output** Relay output status	0	1			
				AHU Coils					
34	232	nvoExtRegSeqRe	SNVT_switch	**Extra reg seq output** Relay output status	0	1			
35	237	nvoHeat_relay	SNVT_switch	**Pmp Heat** Relay output status	0	1			
36	242	nvoCool_1_relay	SNVT_switch	**Cool 1** Relay output status	0	1			
37	243	nvoCool_2_relay	SNVT_switch	**Cool 2** Relay output status	0	1			
				Pre-heat					
38	250	nvoPreHeat_relay	SNVT_switch	**Pre-heat output** Relay output status	0	1			
				Xzone					
39	255	nvoXzone_heat_re	SNVT_switch	**Xzone heat output** Relay output status	0	1			
40	262	nvoXzone_cool_r1	SNVT_switch	**Xzone cool output 1** Relay output status	0	1			
41	263	nvoXzone_cool_r2	SNVT_switch	**Xzone cool output 2** Relay output status	0	1			
				AYC					
42	298	nvoAYC_HeatPmpRe	SNVT_switch	**AYC heat pmp output** Relay output status	0	1			
43	303	nvoAYC_CoolPmpRe	SNVT_switch	**AYC cool pmp output** Relay output status	0	1			
				COOL DX					
44	308	nvoCoolDX1_relay	SNVT_switch	**Cool DX 1** Relay output status	0	1			
45	314	nvoCoolDX2_relay	SNVT_switch	**Cool DX 2** Relay output status	0	1			
				Alarms					
46	399	nvoAlarmOut	SNVT_alarm	Location = "GOLD". Object ID = Alarm number (0-1500). Alarm type = Contains either no alarm or an unspecified alarm. Priority level = alarm priority (No comm.=7, A=1, B=2, Info=3 and none=0). Index to SNVT = Not used. Always set at 0. Value = Not used Always set at 0. Year, month, day = Date when alarm tripped. Alarm limit = Not used. Always set at 0.					
				AHU Air flow/duct pressure					
47	401	nvoAHU_type	SNVT_count	**AHU type** 10=GOLD RX, 11=GOLD PX, 12=GOLD CX, 13=GOLD SD/SA,14=GOLD SD/EA, 15=GOLD SD/SA+CX, 16=GOLD SD/SA+EA, 17=GOLD SD/SA+EA+CX	0	999			
48	402	nvoAirFlowDir	SNVT_switch	**Air flow direction** 0=Fan no.2 as SA, 1=Fan no.1 as SA.	0	1			
				Air flow regulation					
49	403	nvoSF_flow	SNVT_flow	**Sup AF** Present supply air flow.	0	20000	l/s		

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
50	404	nvoSF_flowreg	SNVT_flow	**Sup AF reg** Present supply air flow regulator set point.	0	20000	l/s		
51	405	nvoEF_flow	SNVT_flow	**Ext AF** Present extract air flow.	0	20000	l/s		
52	406	nvoEF_flowreg	SNVT_flow	**Ext AF reg** Present extract air flow regulator set point.	0	20000	l/s		
				Pressure regulation					
53	407	nvoSF_pressure	SNVT_press_p	**Sup air duct pres** Present supply air duct pressure.	0.0	2000.0	Pa		
54	408	nvoSF_press_reg	SNVT_press_p	**Sup air duct pres reg** Present supply air duct pressure regulator set point.	0.0	2000.0	Pa		
55	409	nvoEF_pressure	SNVT_press_p	**Ext air duct pres** Present extract air duct pressure.	0.0	2000.0	Pa		
56	410	nvoEF_press_reg	SNVT_press_p	**Ext air duct pres reg** Present extract air duct pressure regulator set point.	0.0	2000.0	Pa		
				Demand regulation					
57	411	nvoDemand_lev	SNVT_lev_percent	**In sig air VAV dmnd** Present input signal for demand regulation.	0.00	100.00	%		
58	412	nvoDemand_reg	SNVT_lev_percent	**VAV dmnd regulator** Present demand regulator set point.	0.00	100.00	%		
				Air flow pressure sensors					
59	413	nvoSF_fan_press	SNVT_press_p	**Sup air pres** Present air flow pressure in the supply air fan inlet.	0.0	2000.0	Pa		
60	414	nvoEF_fan_press	SNVT_press_p	**Ext air pres** Present air flow pressure in the extract air fan inlet.	0.0	2000.0	Pa		
				Filters					
61	422	nvoSA_PfilterLev	SNVT_press_p	**Sup air preflt prs drop** Present supply air pre-filter pressure drop.	0.0	2000.0	Pa		
62	423	nvoSA_Pfilteralr	SNVT_press_p	**Sup air preflt prs drop alrm lev** Present supply air pre-filter pressure alarm limit.	0.0	2000.0	Pa		
63	424	nvoEA_PfilterLev	SNVT_press_p	**Ext air preflt prs drop** Present extract air pre-filter pressure drop.	0.0	2000.0	Pa		
64	425	nvoEA_Pfilteralr	SNVT_press_p	**Ext air preflt prs drop alrm lev** Present extract air pre-filter pressure alarm limit.	0.0	2000.0	Pa		
65	426	nvoSA_filterLev	SNVT_press_p	**Sup air flt prs drop** Present supply air filter pressure drop.	0.0	2000.0	Pa		
66	427	nvoSA_filteralr	SNVT_press_p	**Sup air flt prs drop alrm lev** Present supply air filter pressure alarm limit.	0.0	2000.0	Pa		
67	428	nvoEA_filterLev	SNVT_press_p	**Ext air flt prs drop** Present extract air filter pressure drop.	0.0	2000.0	Pa		
68	429	nvoEA_filteralr	SNVT_press_p	**Ext air flt prs drop alrm lev** Present extract air filter pressure alarm limit.	0.0	2000.0	Pa		
69	430	nvoSA_EfilterLev	SNVT_press_p	**Sup air endflt prs drop** Present supply air end-filter pressure drop.	0.0	2000.0	Pa		
70	431	nvoSA_Efilteralr	SNVT_press_p	**Sup air endflt prs drop alrm lev** Present supply air end-filter pressure alarm limit.	0.0	2000.0	Pa		
				Fans					
71	28	nvoFanSpeed	SNVT_switch	**Fan Speed Output** Present fan speed level of the supply air fan.	0.00	100.00	%		
72	437	nvoEF_speed	SNVT_switch	**Run lvl ext air fan** Present fan speed level of the extract air fan.	0.00	100.00	%		
73	438	nvoSF_rpm	SNVT_count	**Sup air fan rpm** Present fan speed level of the supply air fan.	0	4000	rpm		

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
74	439	nvoEF_rpm	SNVT_count	**Ext air fan rpm** Present fan speed level of the extract air fan.	0	4000	rpm		
75	440	nvoSF_voltage	SNVT_volt	**Volt sup air fan** Present voltage level of the supply air fan.	0	500	V		
76	441	nvoEF_voltage	SNVT_volt	**Volt ext air fan** Present voltage level of the extract air fan.	0	500	V		
77	442	nvoSF_current	SNVT_amp	**Current sup air fan** Present current level of the supply air fans. Includes all supply air fans.	0	32.700	A		
78	443	nvoEF_current	SNVT_amp	**Current ext air fan** Present current level of the extract air fans. Includes all supply air fans.	0	32.700	A		
79	444	nvoSF_power	SNVT_count	**Consm lev for sup air fan** Present power level of the supply air fans. Includes all supply air fans.	0	45.0	kW		
80	445	nvoEF_power	SNVT_count	**Consm lev for ext air fan** Present power consumption level of the extract air fans. Includes all extract air fans.	0	45.0	kW		
81	446	nvoSF_KWh	SNVT_count	**KWh for sup air fan** Total power consumption of the supply air fans. Includes all supply air fans.	0	9999	kWh		
82	447	nvoEF_KWh	SNVT_count	**KWh for ext air fan** Total power consumption level of the extract air fans. Includes all extract air fans.	0	9999	kWh		
83	448	nvoSF_MWh	SNVT_count	**MWh for sup air fan** Total power consumption of the supply air fans. Includes all supply air fans.	0	9999	MWh		
84	449	nvoEF_MWh	SNVT_count	**MWh for ext air fan** Total power consumption level of the extract air fans. Includes all extract air fans.	0	9999	MWh		
85	450	nvoSF_Optime	SNVT_count	**Sup air fan op time days** Total operation time of the supply air fan presented in days (24h).	0..9999	9999	days		
86	451	nvoEF_Optime	SNVT_count	**Ext air fan op time days** Total operation time of the extract air fan presented in days (24h).	0..9999	9999	days		
87	454	nvoSF_flow_min	SNVT_flow	**Sup AF min** Supply air AHU min air flow	0	18000	l/s		
88	455	nvoEF_flow_min	SNVT_flow	**Ext AF min** Extract air AHU min air flow	0	18000	l/s		
89	456	nvoSF_flow_max	SNVT_flow	**Sup AF max** Supply air AHU max air flow	0	18000	l/s		
90	457	nvoEF_flow_max	SNVT_flow	**Ext AF max** Extract air AHU max air flow	0	18000	l/s		
91	462	nvoSFP	SNVT_lev_percent	**SFP** Calculated SFP level.	0.0	1000.0	kW/m3/s		
AHU Temperature sensors									
92	463	nvoSAtemp	SNVT_temp_p	**Sup air temp** Present supply air temperature.	-55.00	125.00	°C		
93	464	nvoSA_D_temp	SNVT_temp_p	**Supply air-D temp** Present supply air density temperature.	-55.00	125.00	°C		
94	465	nvoEAtemp	SNVT_temp_p	**Ext air/room temp in unit** Present extract air temperature in the unit.	-55.00	125.00	°C		
95	466	nvoEA_D_temp	SNVT_temp_p	**Extract air-D temp** Present extract air density temperature.	-55.00	125.00	°C		

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
96	467	nvoEAreg_temp	SNVT_temp_p	**Ext air/room temp used for reg** Present extract air temperature used for regulation.	-55.00	125.00	°C		
97	472	nvoOUTtemp	SNVT_temp_p	**Outd air temp in unit** Present outdoor air temperature in the unit.	-55.00	125.00	°C		
98	473	nvoOUTreg_temp	SNVT_temp_p	**Outd air temp used for reg** Present outdoor air temperature used for regulation.	-55.00	125.00	°C		
99	38	nvoOutdoorTemp	SNVT_temp_p	**Outdoor Air Temperature Output** Present calculated min, max or average (depending of configuration) temperature of outd. sensor 1-4.	-55.00	125.00	°C		
100	1	nviSpaceTemp	SNVT_temp_p	**Space Temperature Input** Present calculated min, max or average (depending of configuration) temperature of room sensor 1-4. nviSpaceTemp Not used in present SW version. Se also nviRoomTempBMS NV index 392.	-55.00	125.00	°C		
101	21	nvoSpaceTemp	SNVT_temp_p	**Space Temperature Input**					
AHU Temperature regulation									
102	22	nvoEffectSetpt	SNVT_temp_p	**Effective Setpoint Output (sup air)** Present supply air temperature regulator set point.	0.00	50.00	°C		
103	487	nvoEAtempset_reg	SNVT_temp_p	**Ext air temp regulator** Present extract air temperature regulator set point.	0.00	50.00	°C		
104	490	nvoHeatPrimaryRe	SNVT_lev_percent	**Heat exchange reg** Present operation level of the rotary heat exchanger.	0.00	100.00	%		
105	491	nvoEXreg_Heat	SNVT_lev_percent	**Lev extra reg seq heat** Present level of extra regulation heat.	0.00	100.00	%		
106	33	nvoHeatSecondary	SNVT_lev_percent	**Sec Heat Output** Present level of reheat.	0.00	100.00	%		
107	495	nvoReCO2_Heat	SNVT_lev_percent	**ReCO2 heat level** Present level of $ReCO_2$ heat.	0.00	100.00	%		
108	496	nvoFanDownReg	SNVT_lev_percent	**Lev fan air down reg** Present level of fan down regulation.	0.00	100.00	%		
109	497	nvoHeatboost	SNVT_lev_percent	**Lev heat boost** Present level of heating boost.	0.00	100.00	%		
110	498	nvoEXreg_Cool	SNVT_lev_percent	**Lev extra reg seq cool** Present level of extra regulation cool.	0.00	100.00	%		
111	34	nvoCoolPrimary	SNVT_lev_percent	**Primary Cool Output** Present level of cooling.	0.00	100.00	%		
112	502	nvoReCO2_Cool	SNVT_lev_percent	**ReCO2 cool level** Present level of $ReCO_2$ heat.	0.00	100.00	%		
113	503	nvoCoolboost	SNVT_lev_percent	**Lev cool boost** Present level of cooling boost.	0.00	100.00	%		
AHU heat exchange									
114	32	nvoHeatPrimary	SNVT_lev_percent	**Prim Heat Output** Present speed level of the rotary heat exchanger.	0.00	100.00	%		
115	505	nvoRHX_eff	SNVT_lev_percent	**R.HX Efficiency** Calculated level of rotary heat exchanger efficiency.	0.00	100.00	%		
116	506	nvoHX_pressure	SNVT_press_p	**Press drop rot heat exchr** Present pressure drop for the rotary heat exchanger.	0.0	2000.0	Pa		
117	507	nvoHX_pressalr	SNVT_press_p	**Press drop alarm lmt rot heat exchr** Present pressure drop alarm limit for the rotary heat exchanger.	0.0	2000.0	Pa		

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
118	506	nvoHX_PurgPress	SNVT_press_p	**Press drop rot heat exchr purg** Present pressure difference for the rotary heat exchangers purging sector.	0.0	1000.0	Pa		
119	510	nvoHX_Optime	SNVT_count	**Heat X op time days** Total operation time of the rotary heat exchanger presented in days (24h).	0	9999	Days		
120	516	nvoPHX_bypass_op	SNVT_lev_percent	**P.HX bypass output** Present level of plate heat exchanger bypass output.	0.00	100.00	%		
121	518	nvoPHX_temp_1	SNVT_temp_p	**P.HX Temp 1** Present bypass temperature sensor 1 in plate heat exchanger.	-55.00	125.00	°C		
122	519	nvoPHX_temp_2	SNVT_temp_p	**P.HX Temp 2** Present bypass temperature sensor 2 in plate heat exchanger.	-55.00	125.00	°C		
123	526	nvoCHX_valve_op	SNVT_lev_percent	**C.HX Valve output** Present level of coil heat exchanger valve output.	0.00	100.00	%		
124	528	nvoCHX_temp	SNVT_temp_p	**C.HX Temp** Present return water temperature for coil heat exchanger.	-55.00	125.00	°C		
125	529	nvoPCHX_Optime	SNVT_count	**P/C.HX op time days** Total operation time of the coil heat exchanger presented in days (24h).	0	9999	Days		
126	535	nvoPCHX_humidity	SNVT_lev_percent	**P/C.HX Humidity** Present level of air-humidity for calculation of bypass/valve limitation.	0.00	100.00	%		
AHU Coils									
127	552	nvoEXregFrostT	SNVT_temp_p	**Extra reg seq anti frost temp** Present extra regulation anti frost temperature for water heat coil. Value 0=overheat when electric heat is used.	-55.00	125.00	°C		
128	552	nvoFrosttemp	SNVT_temp_p	**Anti frost temp** Present anti frost temperature for water heat coil. Value 0=overheat when electric heat is used.	-55.00	125.00	°C		
129	558	nvoHeat_Optime	SNVT_count	**Reheat op time days** Total operation time of re-heat presented in days (24h).	0	9999	Days		
130	563	nvoCoolCoilTemp	SNVT_temp_p	**Cool coil water temp** Present cool water temperature for water cool coil.	-55.00	125.00	°C		
131	568	nvoCool_Optime	SNVT_count	**Cooling op time days** Total operation time of cool presented in days (24h).	0	9999	Days		
Xzone temperature sensors									
132	573	nvoXzone_SA_temp	SNVT_temp_p	**Xzone SA temp** Present supply air temperature.	-55.00	125.00	°C		
133	574	nvoXzone_EA_temp	SNVT_temp_p	**Xzone EA temp** Present extract air temperature in the unit.	-55.00	125.00	°C		
134	575	nvoXZ_RoomEAtemp	SNVT_temp_p	**Xzone EA/Room temp** Present extract air temperature used for regulation.	-55.00	125.00	°C		
135	580	nvoXZ_Room_temp	SNVT_temp_p	**Xzone Room temp min/max/av** Present calculated min, max or average (depending on configuration) temperature of room sensor 1-4.	-55.00	125.00	°C		
Xzone Temperature regulation									
136	585	nvoXZ_SAtemp_reg	SNVT_temp_p	**Xzone SA temp reg** Present supply air temperature regulator set point.	0.00	50.00	°C		
137	586	nvoXZ_EAtemp_reg	SNVT_temp_p	**Xzone EA temp reg** Present extract air temperature regulator set point.	0.00	50.00	°C		
138	589	nvoXzoneHeatSec	SNVT_lev_percent	**Xzone Sec Heat Output**	0.00	100.00	%		
139	592	nvoXzoneCoolPrim	SNVT_lev_percent	**Xzone Primary Cool Output**	0.00	100.00	%		
Xzone coils									
140	598	nvoXzoneFrosttem	SNVT_temp_p	**Xzone Primary Cool Output** Present Xzone heat anti frost temperature for water heat coil. Value 0=Overheat when electric heat is used.	-55.00	125.00	°C		

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
141	609	nvoXZ_CoolCoil_T	SNVT_temp_p	**Xzone Cool coil water temp**	-55.00	125.00	°C		
				Pre-heat					
142	619	nvoPreHeat_temp	SNVT_temp_p	**Pre-heat air temp** Present pre-heat temperature.	-55.00	125.00	°C		
143	619	nvoPH_temp_reg	SNVT_temp_p	**Pre-heat air temp reg** Present pre-heat temperature regulator set point.	-40.00	40.00	°C		
144	621	nvoPreHeat_level	SNVT_lev_percent	**Pre-heat level**					
145	624	nvoPreHeatFrostT	SNVT_temp_p	**Pre-heat anti frost temp** Present pre-heat anti frost temperature for water heat coil. Value 0=Overheat when electric heat is used.	-55.00	125.00	°C		
				$ReCO_2$					
146	632	nvoReCO2_IntDamp	SNVT_lev_percent	**ReCO2 internal damper output** Present output signal to the recirculation damper.	0.00	100.00	%		
147	634	nvoReCO2_ExtDamp	SNVT_lev_percent	**ReCO2 external damper output** Present output signal to the outdoor air damper.	0.00	100.00	%		
148	636	nvoReCO2_OutAirF	SNVT_flow	**ReCO2 outdoor airflow** Present outdoor air flow level.	0.0	NV 89	l/s		
149	637	nvoReCO2_OAF_reg	SNVT_flow	**ReCO2 outdoor airflow reg** Present outdoor air flow regulator set point.	0.0	NV 89	l/s		
				Humidity					
150	643	nvoSA_humidity	SNVT_lev_percent	**Supply air-humidity** Present level of supply air humidity	0.00	100.00	%RH		
151	644	nvoSA_humidity_t	SNVT_temp_p	**Supply air-humidity temp** Present temperature inside the supply air humidity sensor.	-40.00	123.00	°C		
152	645	nvoSA_dewpoint	SNVT_temp_p	**Supply air-dewpoint** Calculated supply air dew point.	-40.00	40.00	°C		
153	646	nvoEA_humidity	SNVT_lev_percent	**Extract air-humidity** Present level of extract air humidity.	0.00	100.00	%RH		
154	647	nvoEA_humidity_t	SNVT_temp_p	**Extract air-humidity temp** Present temperature inside the extract air humidity sensor.	-40.00	123.00	°C		
155	648	nvoEA_dewpoint	SNVT_temp_p	**Extract air-dewpoint** Calculated extract air dew point.	-40.00	40.00	°C		
156	650	nvoSA_dewpoint_r	SNVT_temp_p	**Supply air-dewpoint reg** Present supply air dew point regulator point.	-40.00	40.00	°C		
157	651	nvoDehum_level	SNVT_lev_percent	**Dehumidifying output level** Present level of the dehumidifying output.	0.00	100.00	%		
158	653	nvoSA_humidi_r	SNVT_temp_p	**Supply air-humidifying reg**	0.00	100.00	%RH		
159	654	nvoHumidi_level	SNVT_lev_percent	**Humidifying output level** Present level of the humidifying output.	0.00	100.00	%		
				VOC					
160	665	nvoVOC_level	SNVT_count	**VOC level** Present level of VOC	450	10000	ppm		
				SMART Link					
161	692	nvoSL_WB_WaterA	SNVT_temp_p	**SL WB outlet water average**	-40.0	176.0	°C		
162	693	nvoSL_WB_ReturnW	SNVT_temp_p	**SL WB return water**	-40.0	176.0	°C		
163	696	nvoSL_WB_HeatedW	SNVT_temp_p	**SL WB heated water**	-40.0	176.0	°C		
164	697	nvoSL_WB_CoolW	SNVT_temp_p	**SL WB chilled water**	-40.0	176.0	°C		
165	718	nvoSL_WB_active	SNVT_switch	**SL WB operation**					
166	719	nvoSL_WB_CoolM	SNVT_switch	**SL WB cool mode**					
167	722	nvoSL_DX1_active	SNVT_switch	**SL DX1 operation**	0	1			
168	723	nvoSL_DX1_CoolM	SNVT_switch	**SL DX1 cool mode**	0	1			
169	726	nvoSL_DX1_PowerS	SNVT_lev_percent	**SL DX1 power level set**	0	100.00	%		

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
170	733	nvoSL_DX2_active	SNVT_switch	**SL DX2 operation**	0	1			
171	734	nvoSL_DX2_CoolM	SNVT_switch	**SL DX2 cool mode**	0	1			
172	737	nvoSL_DX2_PowerS	SNVT_lev_percent	**SL DX2 power level set**	0	100.00	%		
173	744	nvoSL_DX3_active	SNVT_switch	**SL DX3 operation**	0	1			
174	745	nvoSL_DX3_CoolM	SNVT_switch	**SL DX3 cool mode**	0	1			
175	748	nvoSL_DX3_PowerS	SNVT_lev_percent	**SL DX3 power level set**	0	100.00	%		
176	755	nvoSL_DX4_active	SNVT_switch	**SL DX4 operation**	0	1			
177	756	nvoSL_DX4_CoolM	SNVT_switch	**SL DX4 cool mode**	0	1			
178	759	nvoSL_DX4_PowerS	SNVT_lev_percent	**SL DX4 power level set**	0	100.00	%		
AYC									
179	773	nvoAYC_Heat_temp	SNVT_temp_p	**AYC heat temp** Present heat temperature.	-55.00	125.00	°C		
180	774	nvoAYC_Heat_reg	SNVT_temp_p	**AYC heat temp reg** Present heat temperature regulator set point.	-55.00	125.00	°C		
181	775	nvoAYC_HeatValve	SNVT_lev_percent	**AYC heat valve output** Present level of the heat valve output.	0	100.00	%		
182	778	nvoAYC_HeatDeman	SNVT_lev_percent	**AYC heat demand**	0	100.00	%		1.10
183	786	nvoAYC_Cool_Tmp	SNVT_temp_p	**AYC cool temp** Present cool temperature.	-55.00	125.00	°C		
184	787	nvoAYC_Cool_Reg	SNVT_temp_p	**AYC cool temp reg** Present cool temperature regulator set point.	-55.00	125.00	°C		
185	788	nvoAYC_CoolValve	SNVT_lev_percent	**AYC cool valve output** Present cool of the heat valve output.	0	100.00	%		
186	791	nvoAYC_CoolDeman	SNVT_lev_percent	**AYC cool demand**	0	100.00	%		1.10
Software									
187	969	nvoIQlogicVer	SNVT_count	**IQlogic software ver** Present controller software version	0.00	99.00			

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
Operation level									
188	**991**	**nvoOperationLev**	SNVT_count	**Operation level** 0=Fan not available 1=Alarm stop 2=Manual total stop (on hand terminal) 3=External total stop (digital input) 4=Communication total stop 5=Communication normal stop 6=Communication extended normal stop 7=Time channel total stop 8=Time channel normal stop 9=Time channel extended normal stop 10=Low speed=normal stop 11=SA Fan starting up 12=Fan regulation blocked 13=ReCO2 100% recirculation 14=Morning boost stop 15=Intermittent night heat stop 16=After cooling electric heater 17=COOL DX switch off delay 18=Damper switch off delay 19=Manual low speed (on hand terminal) 20=External low speed (digital input) 21=Extended external low speed 22=Communication low speed 23=Time channel low speed 24=Morning boost low speed 25=Intermittent night heat low speed 26=Manual high speed (on hand terminal) 27=External high speed (digital input) 28=Extended external high speed 29=Communication high speed 30=Time channel high speed 31=Summer night cooling high speed 32=Filter calibration 33=RHX Defrost calibration 34=$ReCO_2$ calibration 35=AHU start up 36=Re-heat ramp down 37=HX ramp down 38=Air adjustment	0	100			

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
Alarms									
189	1003	nvoTriggAlarm1	SNVT_count	**Triggered alarm1** ((Alarm group - 1) x 15) + alarm number in group=Triggered alarm number. Zero if no triggered alarm.	0	1500			
190	1004	nvoTriggAlarm2	SNVT_count	**Triggered alarm2**	0	1500			
191	1005	nvoTriggAlarm3	SNVT_count	**Triggered alarm3**	0	1500			
192	1006	nvoTriggAlarm4	SNVT_count	**Triggered alarm4**	0	1500			
193	1007	nvoTriggAlarm5	SNVT_count	**Triggered alarm5**	0	1500			
194	1008	nvoTriggAlarm6	SNVT_count	**Triggered alarm6**	0	1500			
195	1009	nvoTriggAlarm7	SNVT_count	**Triggered alarm7**	0	1500			
196	1010	nvoTriggAlarm8	SNVT_count	**Triggered alarm8**	0	1500			
197	1011	nvoTriggAlarm9	SNVT_count	**Triggered alarm9**	0	1500			
198	1012	nvoTriggAlarm10	SNVT_count	**Triggered alarm10**	0	1500			
Time schedule									
199	1054	nvoCurrentAction	SNVT_count	**Time schedule action** 1=Total stop, 2=Low speed, 3=High speed, 4=Normal stop, 5=Extended normal stop	1	5			
200	1056	nvoException1_A	SNVT_switch	**Exception 1 active** 0=Inactive, 1=Active	0	1			
201	1057	nvoException2_A	SNVT_switch	**Exception 2 active** 0=Inactive, 1=Active	0	1			
202	1058	nvoCalendar1_A	SNVT_switch	**Calendar 1 active** 0=Inactive, 1=Active	0	1			
203	1059	nvoCalendar2_A	SNVT_switch	**Calendar 2 active** 0=Inactive, 1=Active	0	1			
AHU fan regulation									
204	1100	nviSFregmode	SNVT_count	**SA Fan reg mode** Setting of regulation type for the supply air fan. 0=Air flow reg. 1=Pressure reg. 2=Demand reg. 3=Slave controlled by EA fan	0	3		0	
205	1101	nvoSFregmode	SNVT_count	**SA Fan reg mode**					
206	1102	nviEFregmode	SNVT_count	**EA Fan reg mode** Setting of regulation type for the extract air fan. 0=Air flow reg. 1=Pressure reg. 2=Demand reg. 3=Slave controlled by SA fan	0	3		0	
207	1103	nvoEFregmode	SNVT_count	**EA Fan reg mode**					
Air flow regulation									
208	1104	nviSF_LSflow	SNVT_flow	**Sup air flow lw spd** Supply air flow set point for the unit when running in low speed operation.	0	NV 213	l/s		
209	1105	nvoSF_LSflow	SNVT_flow	**Sup air flow lw spd**					
210	1106	nviEF_LSflow	SNVT_flow	**Ext AF lw spd** Extract air flow set point for the unit when running in low speed operation.	0	NV 215	l/s		
211	1107	nvoEF_LSflow	SNVT_flow	**Ext AF lw spd**					
212	1108	nviSF_HSflow	SNVT_flow	**Sup air flow high spd** Supply air flow set point for the unit when running in high speed operation.	NV 209	NV 217	l/s		
213	1109	nvoSF_HSflow	SNVT_flow	**Sup air flow high spd**					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
214	1110	nviEF_HSflow	SNVT_flow	**Ext AF high spd** Extract air flow set point for the unit when running in high speed operation.	NV 211	NV 219	l/s		
215	1111	nvoEF_HSflow	SNVT_flow	**Ext AF high spd**					
216	1112	nviSF_MaxflowBo	SNVT_flow	**SA Max spd AF Boost** Supply air flow max. limit for the unit when the low/high speed operation set point is altered by boosting function etc.	NV 213	NV 89	l/s		
217	1113	nvoSF_MaxflowBo	SNVT_flow	**SA Max spd AF Boost**					
218	1114	nviEF_MaxflowBo	SNVT_flow	**EA Max spd AF Boost** Extract air flow max. limit for the unit when the low/high speed operation set point is altered by boosting function etc.	NV 215	NV 90	l/s		
219	1115	nvoEF_MaxflowBo	SNVT_flow	**EA Max spd AF Boost**					
220	1116	nviSF_FlowZone	SNVT_lev_percent	**SA AF reg zone** Supply air flow regulation zone setting in % of the present air flow set point that the regulator is allowed to work within.	1.00	10.00	%	7.50	
221	1117	nvoSF_FlowZone	SNVT_lev_percent	**SA AF reg zone**					
222	1118	nviEF_FlowZone	SNVT_lev_percent	**EA AF reg zone** Extract air flow regulation zone setting in % of the present air flow set point that the regulator is allowed to work within.	1.00	10.00	%	7.50	
223	1119	nvoEF_FlowZone	SNVT_lev_percent	**EA AF reg zone**					
224	1120	nviSF_I-time	SNVT_time_sec	**SA AF I-time** Supply air flow regulator affection setting.	1	1800	s	30	
225	1121	nvoSF_I-time	SNVT_time_sec	**SA AF I-time**					
226	1122	nviEF_I-time	SNVT_time_sec	**EA AF I-time** Extract air flow regulator affection setting.	1	1800	s	30	
227	1123	nvoEF_I-time	SNVT_time_sec	**EA AF I-time**					
				Pressure regulation					
228	1136	nviSF_LSpressure	SNVT_press_p	**SA Low spd pres** Supply air duct pressure set point for the unit when running in low speed operation.	0.0	NV 233	Pa		
229	1137	nvoSF_LSpressure	SNVT_press_p	**SA Low spd pres**					
230	1138	nviEF_LSpressure	SNVT_press_p	**EA Low spd pres** Extract air duct pressure set point for the unit when running in low speed operation.	0.0	NV 235	Pa		
231	1139	nvoEF_LSpressure	SNVT_press_p	**EA Low spd pres**					
232	1140	nviSF_HSpressure	SNVT_press_p	**SA High spd pres** Supply air duct pressure for the unit when running in high speed operation.	NV 229	NV 237	Pa		
233	1141	nvoSF_HSpressure	SNVT_press_p	**SA High spd pres**					
234	1142	nviEF_HSpressure	SNVT_press_p	**EA High spd pres** Extract air duct pressure set point for the unit when running in high speed operation.	NV 231	NV 239	Pa		
235	1143	nvoEF_HSpressure	SNVT_press_p	**EA High spd pres**					
236	1144	nviSF_Maxpress	SNVT_press_p	**SA Max spd pres** Supply air duct pressure max. limit for the unit when the low/high speed operation set point is altered by boosting function etc.	NV 233	750.0	Pa		
237	1145	nvoSF_Maxpress	SNVT_press_p	**SA Max spd pres**					
238	1146	nviEF_Maxpress	SNVT_press_p	**EA Max spd pres** Extract air duct pressure max. limit for the unit when the low/high speed operation set point is altered by boosting function etc.	NV 235	750.0	Pa		
239	1147	nvoEF_Maxpress	SNVT_press_p	**EA Max spd pres**					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
240	1148	nviSF_Maxspeed	SNVT_lev_percent	**SA Max spd output sig** Max. limit for the supply air fan speed when running in pressure regulation mode.	0	100.00	%		
241	1149	nvoSF_Maxspeed	SNVT_lev_percent	**SA Max spd output sig**					
242	1150	nviEF_Maxspeed	SNVT_lev_percent	**EA Max spd output sig** Max. limit for the extract air fan speed when running in pressure regulation mode.	0	100.00	%		
243	1151	nvoEF_Maxspeed	SNVT_lev_percent	**EA Max spd output sig**					
244	1152	nviSF_PressZone	SNVT_lev_percent	**SA Pres reg zone** Supply air pressure regulation zone setting in % of the present duct pressure set point that the regulator is allowed to work within.	0	10.00	%	7.50	
245	1153	nvoSF_PressZone	SNVT_lev_percent	**SA Pres reg zone**					
246	1154	nviEF_PressZone	SNVT_lev_percent	**EA Pres reg zone** Extract air pressure regulation zone setting in % of the present duct pressure set point that the regulator is allowed to work within.	0	10.00	%	7.50	
247	1155	nvoEF_PressZone	SNVT_lev_percent	**EA Pres reg zone**					
248	1156	nviSF_Press_I-t	SNVT_time_sec	**SA Pres I-time** Supply air pressure regulator affection setting.	0	1800	s	30	
249	1157	nvoSF_Press_I-t	SNVT_time_sec	**SA Pres I-time**					
250	1158	nviEF_Press_I-t	SNVT_time_sec	**EA Pres I-time** Extract air pressure regulator affection setting.	0	1800	s	30	
251	1159	nvoEF_Press_I-t	SNVT_time_sec	**EA Pres I-time**					
Demand regulation									
252	1172	nviLS_demand	SNVT_lev_percent	**Low spd dmnd** Set point for the 0..10V input signal for the unit when running in low speed operation.	0.00	100.00	%	50.00	
253	1173	nvoLS_demand	SNVT_lev_percent	**Low spd dmnd**					
254	1174	nviHS_demand	SNVT_lev_percent	**High spd dmnd** Set point for the 0..10V input signal for the unit when running in high speed operation.	10.00	100.00	%	25.00	
255	1175	nvoHS_demand	SNVT_lev_percent	**High spd dmnd**					
256	1176	nviSF_Minflow	SNVT_flow	**SA Min spd AF** Supply air flow min. limit for the unit when the low/high speed operation set point is altered when running in fan regulation mode demand.	NV 87	NV 261	l/s		
257	1177	nvoSF_Minflow	SNVT_flow	**SA Min spd AF**					
258	1178	nviEF_Minflow	SNVT_flow	**EA Min spd AF** Extract air flow min. limit for the unit when the low/high speed operation set point is altered when running in fan regulation mode demand.	NV 88	NV 263	l/s		
259	1179	nvoEF_Minflow	SNVT_flow	**EA Min spd AF**					
260	1180	nviSF_MaxflowDe	SNVT_flow	**SA Max spd AF demand** Supply air flow max limit for the unit when the low/high speed operation set point is altered when running in fan regulation mode demand.	NV 257	NV 89	l/s		
261	1181	nvoSF_MaxflowDe	SNVT_flow	**SA Max spd AF demand**					
262	1182	nviEF_MaxflowDe	SNVT_flow	**EA Max spd AF demand** Extract air flow max. limit for the unit when the low/high speed operation set point is altered when running in fan regulation mode demand.	NV 259	NV 90	l/s		
263	1183	nvoEF_MaxflowDe	SNVT_flow	**EA Max spd AF demand**					
264	1184	nviDemand_P-b	SNVT_lev_percent	**Dmnd P-band** Supply air demand regulator P-band setting.	1.00	100.00	%	40.00	
265	1185	nvoDemand_P-b	SNVT_lev_percent	**Dmnd P-band**					
266	1186	nviDemand_I-t	SNVT_time_sec	**Dmnd I-time** Supply air demand regulator affection setting.	1	1800	s	1200	

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
267	**1187**	**nvoDemand_I-t**	SNVT_time_sec	**Dmnd I-time**					
Slave controlled regulation									
268	**1198**	**nviSlaveOffFact**	SNVT_lev_percent	**Slave offset factor**	50.00	200.00	%	0.00	
269	**1199**	**nvoSlaveOffFact**	SNVT_lev_percent	**Slave offset factor**					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
				Fans OA temp compensation					
270	**1204**	**nviOutCmpTempFu**	SNVT_count	**Outd Temp Cmp func** 0=Inactive, 1=Active at low speed, 2=Active at high speed, 3=Active at low and high speed.	0	3		0	
271	**1205**	**nvoOutCmpTempFu**	SNVT_count	**Outd Temp Cmp func**					
272	**1206**	**nviOutCmpTempX1**	SNVT_temp_p	**Outd Temp Cmp X1**	-50.00	NV 275	°C	-20.00	
273	**1207**	**nvoOutCmpTempX1**	SNVT_temp_p	**Outd Temp Cmp X1**					
274	**1208**	**nviOutCmpTempX2**	SNVT_temp_p	**Outd Temp Cmp X2**	NV 273	NV 277	°C	-10.00	
275	**1209**	**nvoOutCmpTempX2**	SNVT_temp_p	**Outd Temp Cmp X2**					
276	**1210**	**nviOutCmpTempX3**	SNVT_temp_p	**Outd Temp Cmp X3**	NV 275	NV 279	°C	10.00	
277	**1211**	**nvoOutCmpTempX3**	SNVT_temp_p	**Outd Temp Cmp X3**					
278	**1212**	**nviOutCmpTempX4**	SNVT_temp_p	**Outd Temp Cmp X4**	NV 277	50.00	°C	20.00	
279	**1213**	**nvoOutCmpTempX4**	SNVT_temp_p	**Outd Temp Cmp X4**					
280	**1214**	**nviOutCmpFlwY1SA**	SNVT_flow	**Outd Temp Cmp Y1 SA Flow**	NV 87	NV 89	l/s		
281	**1215**	**nvoOutCmpFlwY1SA**	SNVT_flow	**Outd Temp Cmp Y1 SA Flow**					
282	**1216**	**nviOutCmpFlwY2SA**	SNVT_flow	**Outd Temp Cmp Y2 SA Flow**	NV 87	NV 89	l/s		
283	**1217**	**nvoOutCmpFlwY2SA**	SNVT_flow	**Outd Temp Cmp Y2 SA Flow**					
284	**1218**	**nviOutCmpFlwY3SA**	SNVT_flow	**Outd Temp Cmp Y3 SA Flow**	NV 87	NV 89	l/s		
285	**1219**	**nvoOutCmpFlwY3SA**	SNVT_flow	**Outd Temp Cmp Y3 SA Flow**					
286	**1220**	**nviOutCmpFlwY4SA**	SNVT_flow	**Outd Temp Cmp Y4 SA Flow**	NV 87	NV 89	l/s		
287	**1221**	**nvoOutCmpFlwY4SA**	SNVT_flow	**Outd Temp Cmp Y4 SA Flow**					
288	**1222**	**nviOutCmpFlwY1EA**	SNVT_flow	**Outd Temp Cmp Y1 EA Flow**	NV 88	NV 90	l/s		
289	**1223**	**nvoOutCmpFlwY1EA**	SNVT_flow	**Outd Temp Cmp Y1 EA Flow**					
290	**1224**	**nviOutCmpFlwY2EA**	SNVT_flow	**Outd Temp Cmp Y2 EA Flow**	NV 88	NV 90	l/s		
291	**1225**	**nvoOutCmpFlwY2EA**	SNVT_flow	**Outd Temp Cmp Y2 EA Flow**					
292	**1226**	**nviOutCmpFlwY3EA**	SNVT_flow	**Outd Temp Cmp Y3 EA Flow**	NV 88	NV 90	l/s		
293	**1227**	**nvoOutCmpFlwY3EA**	SNVT_flow	**Outd Temp Cmp Y3 EA Flow**					
294	**1228**	**nviOutCmpFlwY4EA**	SNVT_flow	**Outd Temp Cmp Y4 EA Flow**	NV 88	NV 90	l/s		
295	**1229**	**nvoOutCmpFlwY4EA**	SNVT_flow	**Outd Temp Cmp Y4 EA Flow**					
296	**1230**	**nviOutCmpPrsY1SA**	SNVT_press_p	**Outd Temp Cmp Y1 SA Press**	20.0	750.0	Pa	100.0	
297	**1231**	**nvoOutCmpPrsY1SA**	SNVT_press_p	**Outd Temp Cmp Y1 SA Press**					
298	**1232**	**nviOutCmpPrsY2SA**	SNVT_press_p	**Outd Temp Cmp Y2 SA Press**	20.0	750.0	Pa	100.0	
299	**1233**	**nvoOutCmpPrsY2SA**	SNVT_press_p	**Outd Temp Cmp Y2 SA Press**					
300	**1234**	**nviOutCmpPrsY3SA**	SNVT_press_p	**Outd Temp Cmp Y3 SA Press**	20.0	750.0	Pa	100.0	
301	**1235**	**nvoOutCmpPrsY3SA**	SNVT_press_p	**Outd Temp Cmp Y3 SA Press**					
302	**1236**	**nviOutCmpPrsY4SA**	SNVT_press_p	**Outd Temp Cmp Y4 SA Press**	20.0	750.0	Pa	100.0	
303	**1237**	**nvoOutCmpPrsY4SA**	SNVT_press_p	**Outd Temp Cmp Y4 SA Press**					
304	**1238**	**nviOutCmpPrsY1EA**	SNVT_press_p	**Outd Temp Cmp Y1 EA Press**	20.0	750.0	Pa	100.0	
305	**1239**	**nvoOutCmpPrsY1EA**	SNVT_press_p	**Outd Temp Cmp Y1 EA Press**					
306	**1240**	**nviOutCmpPrsY2EA**	SNVT_press_p	**Outd Temp Cmp Y2 EA Press**	20.0	750.0	Pa	100.0	
307	**1241**	**nvoOutCmpPrsY2EA**	SNVT_press_p	**Outd Temp Cmp Y2 EA Press**					
308	**1242**	**nviOutCmpPrsY3EA**	SNVT_press_p	**Outd Temp Cmp Y3 EA Press**	20.0	750.0	Pa	100.0	
309	**1243**	**nvoOutCmpPrsY3EA**	SNVT_press_p	**Outd Temp Cmp Y3 EA Press**					
310	**1244**	**nviOutCmpPrsY4EA**	SNVT_press_p	**Outd Temp Cmp Y4 EA Press**	20.0	750.0	Pa	100.0	
311	**1245**	**nvoOutCmpPrsY4EA**	SNVT_press_p	**Outd Temp Cmp Y4 EA Press**					
				Fans down regulation					
312	**1254**	**nviDownRegFunc**	SNVT_count	**Fans down reg func** 0=Inactive, 1=SA, 2=SA and EA	0	2		1	
313	**1255**	**nvoDownRegFunc**	SNVT_count	**Fans down reg func**					
314	**1256**	**nviDownReg_NZ**	SNVT_temp_p	**Fans down reg ntrl zone**	0.00	10.00	K	0.00	

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
315	1257	nvoDownReg_NZ	SNVT_temp_p	**Fans down reg ntrl zone**					
316	1258	nviDownReg_P-b	SNVT_temp_p	**Fans down reg P-band**	1.00	10.00	K	5.00	
317	1259	nvoDownReg_P-b	SNVT_temp_p	**Fans down reg P-band**					
318	1260	nviDownReg_I-t	SNVT_time_sec	**Fans down reg I-time**	1	1800	s	30	
319	1261	nvoDownReg_I-t	SNVT_time_sec	**Fans down reg I-time**					
				AHU Temperature regulation					
320	1328	nviTempregmode	SNVT_count	**Temp reg mode** 1=ERS-1, 2=ERS-2, 3=SA, 4=EA, 5=ORS, 6=ORE	1	6		3	
321	1329	nvoTempregmode	SNVT_count	**Temp reg mode**					
				ERS-1 reg.					
322	1332	nviERS1step	SNVT_count	**ERS 1 Step** Curve setting according to the diagram for ERS 1.	1	4		2	
323	1333	nvoERS1step	SNVT_count	**ERS 1 Step**					
324	1334	nviERS1diff	SNVT_temp_p	**SA temp diff set ERS 1** Supply air temp difference setting according to the diagram for ERS 1.	1.00	7.00	K	2.00	
325	1335	nvoERS1diff	SNVT_temp_p	**SA temp diff set ERS 1**					
326	1336	nviERS1brkpnt	SNVT_temp_p	**ERS 1 Brkpnt** Breakpoint temp setting according to the diagram for ERS 1.	12.00	26.00	°C	22.00	
327	1337	nvoERS1brkpnt	SNVT_temp_p	**ERS 1 Brkpnt**					
				ERS-2 reg.					
328	1342	nviERS2_X1	SNVT_temp_p	**ERS 2 Brkpnt_X1** Breakpoint X1 setting according to the diagram for ERS 2.	10.00	NV 331	°C	15.00	
329	1343	nvoERS2_X1	SNVT_temp_p	**ERS 2 Brkpnt_X1**					
330	1344	nviERS2_X2	SNVT_temp_p	**ERS 2 Brkpnt_X2** Breakpoint X2 setting according to the diagram for ERS 2.	NV 329	NV 333	°C	20.00	
331	1345	nvoERS2_X2	SNVT_temp_p	**ERS 2 Brkpnt_X2**					
332	1346	nviERS2_X3	SNVT_temp_p	**ERS 2 Brkpnt_X3** Breakpoint X3 setting according to the diagram for ERS 2.	NV 331	NV 335	°C	22.00	
333	1347	nvoERS2_X3	SNVT_temp_p	**ERS 2 Brkpnt_X3**					
334	1348	nviERS2_X4	SNVT_temp_p	**ERS 2 Brkpnt_X4** Breakpoint X4 setting according to the diagram for ERS 2.	NV 333	40.00	°C	24.00	
335	1349	nvoERS2_X4	SNVT_temp_p	**ERS 2 Brkpnt_X4**					
336	1350	nviERS2_Y1	SNVT_temp_p	**ERS 2 Brkpnt_Y1** Breakpoint Y1 setting according to the diagram for ERS 2.	10.00	40.00	°C	20.00	
337	1351	nvoERS2_Y1	SNVT_temp_p	**ERS 2 Brkpnt_Y1**					
338	1352	nviERS2_Y2	SNVT_temp_p	**ERS 2 Brkpnt_Y2** Breakpoint Y2 setting according to the diagram for ERS 2.	10.00	40.00	°C	18.00	
339	1353	nvoERS2_Y2	SNVT_temp_p	**ERS 2 Brkpnt_Y2**					
340	1354	nviERS2_Y3	SNVT_temp_p	**ERS 2 Brkpnt_Y3** Breakpoint Y3 setting according to the diagram for ERS 2.	10.00	40.00	°C	14.00	
341	1355	nvoERS2_Y3	SNVT_temp_p	**ERS 2 Brkpnt_Y3**					
342	1356	nviERS2_Y4	SNVT_temp_p	**ERS 2 Brkpnt_Y4** Breakpoint Y4 setting according to the diagram for ERS 2.	10.00	40.00	°C	12.00	
343	1357	nvoERS2_Y4	SNVT_temp_p	**ERS 2 Brkpnt_Y4**					
				SA Reg.					
344	2	nviSetpoint	SNVT_temp_p	**Temp stpnt Input (absolute)** Supply air temperature setting, for supply air temp regulation mode.	10.00	40.00	°C	21.00	
345	1363	nvoSetpoint	SNVT_temp_p	**Temp stpnt (absolute)**					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
				EA Reg.					
346	**1368**	**nviEAtempset**	SNVT_temp_p	**EA Temp** Extract air/room temperature setting, for Extract air/room temp regulation mode.	10.00	40.00	°C	21.00	
347	**1369**	**nvoEAtempset**	SNVT_temp_p	**EA Temp**					
348	**1370**	**nviMinSAtemp**	SNVT_temp_p	**SA Min temp** Supply air min. set point during EA/room regulation mode.	8.00	20.00	°C	16.00	
349	**1371**	**nvoMinSAtemp**	SNVT_temp_p	**SA Min temp**					
350	**1372**	**nviMaxSAtemp**	SNVT_temp_p	**SA Max temp** Supply air max. set point during EA/room regulation mode.	16.00	50.00	°C	28.00	
351	**1373**	**nvoMaxSAtemp**	SNVT_temp_p	**SA Max temp**					
352	**1374**	**nviEA_Reg_P-b**	SNVT_temp_p	**EA reg P-band**	1.00	10.00	K	5.00	
353	**1375**	**nvoEA_Reg_P-b**	SNVT_temp_p	**EA reg P-band**					
354	**1376**	**nviEA_Reg_I-t**	SNVT_time_sec	**EA reg I-time**	1	1800	s	30	
355	**1377**	**nvoEA_Reg_I-t**	SNVT_time_sec	**EA reg I-time**					
				ORS Reg.					
356	**1382**	**nviORS_X1**	SNVT_temp_p	**ORS Brkpnt_X1** Breakpoint X1 setting according to the diagram for ORS.	-5.00	NV 359	°C	-20.00	
357	**1383**	**nvoORS_X1**	SNVT_temp_p	**ORS Brkpnt_X1**					
358	**1384**	**nviORS_X2**	SNVT_temp_p	**ORS Brkpnt_X2** Breakpoint X2 setting according to the diagram for ORS.	NV 357	NV 361	°C	-10.00	
359	**1385**	**nvoORS_X2**	SNVT_temp_p	**ORS Brkpnt_X2**					
360	**1386**	**nviORS_X3**	SNVT_temp_p	**ORS Brkpnt_X3** Breakpoint X3 setting according to the diagram for ORS.	NV 359	NV 363	°C	10.00	
361	**1387**	**nvoORS_X3**	SNVT_temp_p	**ORS Brkpnt_X3**					
362	**1388**	**nviORS_X4**	SNVT_temp_p	**ORS Brkpnt_X4** Breakpoint X4 setting according to the diagram for ORS.	NV 361	50.00	°C	20.00	
363	**1389**	**nvoORS_X4**	SNVT_temp_p	**ORS Brkpnt_X4**					
364	**1390**	**nviORS_Y1**	SNVT_temp_p	**ORS Brkpnt_Y1** Breakpoint Y1 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
365	**1391**	**nvoORS_Y1**	SNVT_temp_p	**ORS Brkpnt_Y1**					
366	**1392**	**nviORS_Y2**	SNVT_temp_p	**ORS Brkpnt_Y2** Breakpoint Y2 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
367	**1393**	**nvoORS_Y2**	SNVT_temp_p	**ORS Brkpnt_Y2**					
368	**1394**	**nviORS_Y3**	SNVT_temp_p	**ORS Brkpnt_Y3** Breakpoint Y3 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
369	**1395**	**nvoORS_Y3**	SNVT_temp_p	**ORS Brkpnt_Y3**					
370	**1396**	**nviORS_Y4**	SNVT_temp_p	**ORS Brkpnt_Y4** Breakpoint Y4 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
371	**1397**	**nvoORS_Y4**	SNVT_temp_p	**ORS Brkpnt_Y4**					
				ORE Reg.					
372	**1402**	**nviORE_X1**	SNVT_temp_p	**ORE Brkpnt_X1** Breakpoint X1 setting according to the diagram for ORE.	-5.00	NV 375	°C	-20.00	
373	**1403**	**nvoORE_X1**	SNVT_temp_p	**ORE Brkpnt_X1**					
374	**1404**	**nviORE_X2**	SNVT_temp_p	**ORE Brkpnt_X2** Breakpoint X2 setting according to the diagram for ORE.	NV 373	NV 377	°C	-10.00	
375	**1405**	**nvoORE_X2**	SNVT_temp_p	**ORE Brkpnt_X2**					
376	**1406**	**nviORE_X3**	SNVT_temp_p	**ORE Brkpnt_X3** Breakpoint X3 setting according to the diagram for ORE.	NV 375	NV 379	°C	10.00	
377	**1407**	**nvoORE_X3**	SNVT_temp_p	**ORE Brkpnt_X3**					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
378	1408	nviORE_X4	SNVT_temp_p	**ORE Brkpnt_X4** Breakpoint X4 setting according to the diagram for ORE.	NV 377	50.00	°C	20.00	
379	1409	nvoORE_X4	SNVT_temp_p	**ORE Brkpnt_X4**					
380	1410	nviORE_Y1	SNVT_temp_p	**ORE Brkpnt_X4** Breakpoint Y1 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
381	1411	nvoORE_Y1	SNVT_temp_p	**ORE Brkpnt_Y1**					
382	1412	nviORE_Y2	SNVT_temp_p	**ORE Brkpnt_Y2** Breakpoint Y2 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
383	1413	nvoORE_Y2	SNVT_temp_p	**ORE Brkpnt_Y2**					
384	1414	nviORE_Y3	SNVT_temp_p	**ORE Brkpnt_Y3** Breakpoint Y3 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
385	1415	nvoORE_Y3	SNVT_temp_p	**ORE Brkpnt_Y3**					
386	1416	nviORE_Y4	SNVT_temp_p	**ORE Brkpnt_Y4** Breakpoint Y4 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
387	1417	nvoORE_Y4	SNVT_temp_p	**ORE Brkpnt_Y4**					
AHU external sensors									
388	1430	nviRoomTempExtFu	SNVT_count	**EA/Room temp ext func** 0=Average, 1=Min, 2=Max	0	2		0	
389	1431	nvoRoomTempExtFu	SNVT_count	**EA/Room temp ext func**					
390	1432	nviRoomTempBMSFu	SNVT_count	**EA/Room temp from BMS func**	0	1		0	
391	1433	nvoRoomTempBMSFu	SNVT_count	**EA/Room temp from BMS func**					
392	1434	nviRoomTempBMS	SNVT_temp_p	**EA/Room temp from BMS**	-55.00	125.00	°C	0.00	
393	1435	nvoRoomTempBMS	SNVT_temp_p	**EA/Room temp from BMS**					
394	1436	nviRoomTempBMSAl	SNVT_time_min	**EA/Room temp from BMS alarm**	0	9999	min	5	
395	1437	nvoRoomTempBMSAl	SNVT_time_min	**EA/Room temp from BMS alarm**					
396	1450	nviOutdTempExtFu	SNVT_count	**Outdoor temp ext func** 0=Average, 1=Min, 2=Max	0	2		0	
397	1451	nvoOutdTempExtFu	SNVT_count	**Outdoor temp ext func**					
398	1452	nviOutdTempBMSFu	SNVT_count	**Outdoor temp from BMS func**	0	1		0	
399	1453	nvoOutdTempBMSFu	SNVT_count	**Outdoor temp from BMS func**					
400	1454	nviOutdTempBMS	SNVT_temp_p	**Outdoor temp from BMS**	-55.00	125.00	°C	0.00	
401	1455	nvoOutdTempBMS	SNVT_temp_p	**Outdoor temp from BMS**					
402	1456	nviOutdTempBMSAl	SNVT_time_min	**Outdoor temp from BMS alarm**	0	9999	min	5	
403	1457	nvoOutdTempBMSAl	SNVT_time_min	**Outdoor temp from BMS alarm**					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
				AHU Heat exchange					
404	**1462**	**nviRHX_defr_func**	SNVT_switch	**Defrost Heat X Act** Setting for activating the defrost function for the rotary heat exchanger.	0	1		0	
405	**1463**	**nvoRHX_defr_func**	SNVT_switch	**Defrost Heat X**					
406	**1464**	**nviRHX_defr_cal**	SNVT_switch	**Defrost Heat X Cal**	0	1		0	
407	**1465**	**nvoRHX_defr_cal**	SNVT_switch	**Defrost Heat X Cal**					
408	**1466**	**nviRHX_defr_sta**	SNVT_press_p	**Defrost Heat X start**	30.0	100.0	Pa	50.0	
409	**1467**	**nvoRHX_defr_sta**	SNVT_press_p	**Defrost Heat X start**					
410	**1472**	**nviRHX_COC_func**	SNVT_switch	**Carry over cont Heat X Act** Setting for activating the carry over control function for the rotary heat exchanger.	0	1		0	
411	**1473**	**nvoRHX_COC_func**	SNVT_switch	**Carry over cont Heat X**					
412	**1478**	**nviRHX_MinEAtmpF**	SNVT_switch	**Min EA temp Heat X Act**	0	1		0	
413	**1479**	**nvoRHX_MinEAtmpF**	SNVT_switch	**Min EA temp Heat X**					
414	**1480**	**nviRHX_MinEAtmpS**	SNVT_temp_p	**Min EA temp Heat X stpnt**	-40.00	20.00	°C	5.00	
415	**1481**	**nvoRHX_MinEAtmpS**	SNVT_temp_p	**Min EA temp Heat X stpnt**					
416	**1482**	**nviRHX_MinEAtmpP**	SNVT_temp_p	**Min EA temp Heat X P-band**	1.00	40.00	K	8.00	
417	**1483**	**nvoRHX_MinEAtmpP**	SNVT_temp_p	**Min EA temp Heat X P-band**					
418	**1484**	**nviRHX_MinEAtmpI**	SNVT_time_sec	**Min EA temp Heat X I-time**	0	30000	s	30	
419	**1485**	**nvoRHX_MinEAtmpI**	SNVT_time_sec	**Min EA temp Heat X I-time**					
420	**1524**	**nviPCHX_defr_lim**	SNVT_temp_p	**P/C.HX.defrost limit** PHX is default 3°C, CHX is default 5°C.	-10.00	5.00	°C		
421	**1525**	**nvoPCHX_defr_lim**	SNVT_temp_p	**P/C.HX.defrost limit**					
422	**1526**	**nviPCHX_defr_P-b**	SNVT_temp_p	**P/C.HX.defrost P-band**	1.00	40.00	K	20.00	
423	**1527**	**nvoPCHX_defr_P-b**	SNVT_temp_p	**P/C.HX.defrost P-band**					
424	**1528**	**nviPCHX_defr_I-t**	SNVT_time_sec	**P/C.HX.defrost I-time**	1	600	s	60	
425	**1529**	**nvoPCHX_defr_I-t**	SNVT_time_sec	**P/C.HX.defrost I-time**					
426	**1538**	**nviHX_tmp_reg_Pb**	SNVT_temp_p	**P/C.HX.defrost P-band**	1.00	10.00	K	6.00	
427	**1539**	**nvoHX_tmp_reg_Pb**	SNVT_temp_p	**P/C.HX.defrost P-band**					
428	**1540**	**nviHX_tmp_reg_It**	SNVT_time_sec	**P/C.HX.defrost I-time**	1	1800	s	50	
429	**1541**	**nvoHX_tmp_reg_It**	SNVT_time_sec	**P/C.HX.defrost I-time**					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
				AHU Heat/Cool					
430	**1550**	**nviReHeat_P-band**	SNVT_temp_p	**ReHeat P-band**	1.00	10.00	K	8.00	
431	**1551**	**nvoReHeat_P-band**	SNVT_temp_p	**ReHeat P-band**					
432	**1552**	**nviReHeat_I-time**	SNVT_time_sec	**ReHeat I-time**	1	1800	s	70	
433	**1553**	**nvoReHeat_I-time**	SNVT_time_sec	**ReHeat I-time**					
434	**1572**	**nviEXreg_func**	SNVT_count	**Extra reg seq func** 0=Inactive, 1=Heat, 2=Cool, 3=Heat and Cool.	0	3		0	
435	**1573**	**nvoEXreg_func**	SNVT_count	**Extra reg seq func**					
436	**1574**	**nviEXreg_OP_func**	SNVT_count	**Extra reg seq output func** 0=0-10V, 1=10-0V	0	1		0	
437	**1575**	**nvoEXreg_OP_func**	SNVT_count	**Extra reg seq output func**					
438	**1576**	**nviEXreg_H_MaxOP**	SNVT_lev_percent	**Extra reg seq heat max output** Maximum output signal setting for the extra regulation sequence.	0.00	100.00	%	100.00	
439	**1577**	**nvoEXreg_H_MaxOP**	SNVT_lev_percent	**Extra reg seq heat max output**					
440	**1578**	**nviEXreg_C_MaxOP**	SNVT_lev_percent	**Extra reg seq cool max output** Maximum output signal setting for the extra regulation sequence.	0.00	100.00	%	100.00	
441	**1579**	**nvoEXreg_C_MaxOP**	SNVT_lev_percent	**Extra reg seq cool max output**					
442	**1580**	**nviEXreg_H_P-b**	SNVT_temp_p	**Extra reg seq heat P-band**	1.00	10.00	K	8	
443	**1581**	**nvoEXreg_H_P-b**	SNVT_temp_p	**Extra reg seq heat P-band**					
444	**1582**	**nviEXreg_H_I-t**	SNVT_time_sec	**Extra reg seq heat I-time**	1	1800	s	70	
445	**1583**	**nvoEXreg_H_I-t**	SNVT_time_sec	**Extra reg seq heat I-time**					
446	**1584**	**nviEXreg_C_P-b**	SNVT_temp_p	**Extra reg seq cool P-band**	1.00	10.00	K	6	
447	**1585**	**nvoEXreg_C_P-b**	SNVT_temp_p	**Extra reg seq cool P-band**					
448	**1586**	**nviEXreg_C_I-t**	SNVT_time_sec	**Extra reg seq cool I-time**	1	1800	s	60	
449	**1587**	**nvoEXreg_C_I-t**	SNVT_time_sec	**Extra reg seq cool I-time**					
450	**1600**	**nviEXreg_Pro_Fu**	SNVT_switch	**Extra reg temp protection func**	0	1		0	1.10
451	**1601**	**nvoEXreg_Pro_Fu**	SNVT_switch	**Extra reg temp protection func**					
452	**1602**	**nviEXreg_Pro_Tmp**	SNVT_temp_p	**Extra reg temp protection temp**	-50.00	100.00	°C	0.00	1.10
453	**1603**	**nvoEXreg_Pro_Tmp**	SNVT_temp_p	**Extra reg temp protection temp**					
454	**1604**	**nviEXreg_Pro_Al**	SNVT_time_min	**Extra reg temp protection alarm**	0	9999	min	5	1.10
455	**1605**	**nvoEXreg_Pro_Al**	SNVT_time_min	**Extra reg temp protection alarm**					
456	**1620**	**nviCool_reg_func**	SNVT_count	**Cool on/off regulation func** 0=Inactive, 1=1 step, 2=2 steps, 3=3 steps.	0	3		0	
457	**1621**	**nvoCool_reg_func**	SNVT_count	**Cool on/off regulation func**					
458	**1622**	**nviCool_SA_NZ**	SNVT_temp_p	**Cool SA neutral zone**	0.50	10.00	K	2.00	
459	**1623**	**nvoCool_SA_NZ**	SNVT_temp_p	**Cool SA neutral zone**					
460	**1624**	**nviCool_EA_NZ**	SNVT_temp_p	**Cool EA neutral zone**	0.50	10.00	K	2.00	
461	**1625**	**nvoCool_EA_NZ**	SNVT_temp_p	**Cool EA neutral zone**					
462	**1626**	**nviCoolLimit1**	SNVT_temp_p	**Cool Outd temp limit 1**	0.00	30.00	°C	15.00	
463	**1627**	**nvoCoolLimit1**	SNVT_temp_p	**Cool Outd temp limit 1**					
464	**1628**	**nviCoolLimit2**	SNVT_temp_p	**Cool Outd temp limit 2**	0.00	30.00	°C	18.00	
465	**1629**	**nvoCoolLimit2**	SNVT_temp_p	**Cool Outd temp limit 2**					
466	**1630**	**nviCoolLimit3**	SNVT_temp_p	**Cool Outd temp limit 3**	0.00	30.00	°C	20.00	
467	**1631**	**nvoCoolLimit3**	SNVT_temp_p	**Cool Outd temp limit 3**					
468	**1632**	**nviSFcoolMinflow**	SNVT_flow	**SA Cool min air flow**	0	NV 89	l/s		
469	**1633**	**nvoSFcoolMinflow**	SNVT_flow	**SA Cool min air flow**					
470	**1634**	**nviEFcoolMinflow**	SNVT_flow	**EA Cool min air flow**	0	NV 90	l/s		
471	**1635**	**nvoEFcoolMinflow**	SNVT_flow	**EA Cool min air flow**					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
472	1636	nviCool_restart	SNVT_time_min	**Cool restart time** Setting of cool restart time between start-start.	0	15	min	5	
473	1637	nvoCool_restart	SNVT_time_min	**Cool restart time**					
474	1638	nviCoolstep_time	SNVT_time_min	**Cool step time** Setting of on/off cooling and COOL DX time delay between steps.	0	10	min	5	
475	1639	nvoCoolstep_time	SNVT_time_min	**Cool step time**					
476	1640	nviCoolStillTime	SNVT_time_min	**Cool stand still time** Setting of on/off cooling and COOL DX time delay before stop-start	0	20	min	5	
477	1641	nvoCoolStillTime	SNVT_time_min	**Cool stand still time**					
478	1642	nviCool_P-band	SNVT_temp_p	**Cool P-band**	1.00	10.00	K	6	
479	1643	nvoCool_P-band	SNVT_temp_p	**Cool P-band**					
480	1644	nviCool_I-time	SNVT_time_sec	**Cool I-time**	1	1800	s	60	
481	1645	nvoCool_I-time	SNVT_time_sec	**Cool I-time**					
				Summer night cool/Intermittent night heat /Morning boost					
482	1666	nviNC_func	SNVT_switch	**Smr Nght Cool Act**	0	1		0	
483	1667	nvoNC_func	SNVT_switch	**Smr Nght Cool**					
484	1668	nviNC_start_h	SNVT_time_hour	**Smr nght cool strt hour**	0	23	h	23	
485	1669	nvoNC_start_h	SNVT_time_hour	**Smr nght cool strt hour**					
486	1670	nviNC_start_m	SNVT_time_min	**Smr nght cool strt min**	0	59	min	0	
487	1671	nvoNC_start_m	SNVT_time_min	**Smr nght cool strt min**					
488	1672	nviNC_stop_h	SNVT_time_hour	**Smr nght cool stop hour**	0	23	h	23	
489	1673	nvoNC_stop_h	SNVT_time_hour	**Smr nght cool stop hour**					
490	1674	nviNC_stop_m	SNVT_time_min	**Smr nght cool stop min**	0	59	min	0	
491	1675	nvoNC_stop_m	SNVT_time_min	**Smr nght cool stop min**					
492	1676	nviNC_OUTlimit	SNVT_temp_p	**Smr nght cl outd temp lmt**	-5.00	15.00	°C	10.00	
493	1677	nvoNC_OUTlimit	SNVT_temp_p	**Smr nght cl outd temp lmt**					
494	1678	nviNC_starttemp	SNVT_temp_p	**Smr Nght cl room strt temp**	17.00	27.00	°C	22.00	
495	1679	nvoNC_starttemp	SNVT_temp_p	**Smr Nght cl room strt temp**					
496	1680	nviNC_stoptemp	SNVT_temp_p	**Smr Nght cl room stop temp**	12.00	22.00	°C	16.00	
497	1681	nvoNC_stoptemp	SNVT_temp_p	**Smr Nght cl room stop temp**					
498	1682	nviNC_SAtempset	SNVT_temp_p	**Smr nght cl SA temp**	0.00	20.00	°C	10.00	
499	1683	nvoNC_SAtempset	SNVT_temp_p	**Smr nght cl SA temp**					
500	1690	nviNH_func	SNVT_switch	**Intrmt Nght Heat Act**	0	1		0	
501	1691	nvoNH_func	SNVT_switch	**Intrmt Nght Heat**					
502	1692	nviNH_SAflowset	SNVT_flow	**Int Nght ht SA airflow**	NV 87	NV 89	l/s		
503	1693	nvoNH_SAflowset	SNVT_flow	**Int Nght ht SA airflow**					
504	1694	nviNH_SApress	SNVT_press_p	**Int.Night heat SA press set**	20	750	Pa	100	
505	1695	nvoNH_SApress	SNVT_press_p	**Int.Night heat SA press set**					
506	1696	nviNH_starttemp	SNVT_temp_p	**Int Nght ht room strt temp**	5.00	NV 509	°C	16.00	
507	1697	nvoNH_starttemp	SNVT_temp_p	**Int Nght ht room strt temp**					
508	1698	nviNH_stoptemp	SNVT_temp_p	**Int Nght ht room stop temp**	NV 507	25.00	°C	18.00	
509	1699	nvoNH_stoptemp	SNVT_temp_p	**Int Nght ht room stop temp**					
510	1700	nviNH_SAtempset	SNVT_temp_p	**Int Nght ht SA temp**	5.00	50.00	°C	28.00	
511	1701	nvoNH_SAtempset	SNVT_temp_p	**Int Nght ht SA temp**					
512	1708	nviMB_func	SNVT_switch	**Mrn bst Act**	0	1		0	
513	1709	nvoMB_func	SNVT_switch	**Mrn bst**					
514	1710	nviMornboost_h	SNVT_time_hour	**Mrn bst hour**	0	23	h	0	
515	1711	nvoMornboost_h	SNVT_time_hour	**Mrn bst hour**					
516	1712	nviMornboost_m	SNVT_time_min	**Mrn bst min**	0	59	min	0	
517	1713	nvoMornboost_m	SNVT_time_min	**Mrn bst min**					
518	1714	nviMB_SAflowset	SNVT_flow	**Mrn bst SA airflow**	NV 87	NV 89	l/s		

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
519	1715	nvoMB_SAflowset	SNVT_flow	**Mrn bst SA airflow**					
520	1716	nviMB_SApress	SNVT_press_p	**Mrn bst SA press set**	20	750	Pa	100	
521	1717	nvoMB_SApress	SNVT_press_p	**Mrn bst SA press set**					
				Cooling boost/heating boost					
522	1724	nviC_boostMode	SNVT_count	**Cooling bst reg mode** 0=Inactive, 1=Comfort, 2=Economy, 3=Sequence, 4=Comfort and Economy, 5=Economy and Sequence	0	5		0	
523	1725	nvoC_boostMode	SNVT_count	**Cooling bst reg mode**					
524	1726	nviC_boostStart	SNVT_temp_p	**Cooling bst com start limit**	2.00	10.00	K	3.00	
525	1727	nvoC_boostStart	SNVT_temp_p	**Cooling bst com start limit**					
526	1728	nviC_boostSpeed	SNVT_lev_percent	**Cooling bst com reg speed**	1	25	%/s	4	
527	1729	nvoC_boostSpeed	SNVT_lev_percent	**Cooling bst com reg speed**					
528	1730	nviC_boostP-band	SNVT_temp_p	**Cooling bst P-band**	1	10.00	K		
529	1731	nvoC_boostP-band	SNVT_temp_p	**Cooling bst P-band**					
530	1732	nviC_boostI-time	SNVT_time_sec	**Cooling bst I-time**	1	1800	s		
531	1733	nvoC_boostI-time	SNVT_time_sec	**Cooling bst I-time**					
532	1738	nviH_boostmode	SNVT_count	**Heating bst reg mode**	0	1		0	
533	1739	nvoH_boostmode	SNVT_count	**Heating bst reg mode**					
534	1740	nviH_boostStart	SNVT_temp_p	**Heating bst com start limit**	2.00	10.00	K	3.00	
535	1741	nvoH_boostStart	SNVT_temp_p	**Heating bst com start limit**					
536	1742	nviH_boostSpeed	SNVT_lev_percent	**Heating bst com reg speed**	1	25	%/s	4	
537	1743	nvoH_boostSpeed	SNVT_lev_percent	**Heating bst com reg speed**					
				Xzone function					
538	1748	nviXZ_ReheatFunc	SNVT_count	**Xzone reheat func**	0	1		0	
539	1749	nvoXZ_ReheatFunc	SNVT_count	**Xzone reheat func**					
540	1752	nviXZ_CoolFunc	SNVT_count	**Xzone cool func**	0	1		0	
541	1753	nvoXZ_CoolFunc	SNVT_count	**Xzone cool func**					
				Xzone temperature regulation					
542	1756	nviXZ_Tempregmod	SNVT_count	**Xzone tempregmode** 1=ERS-1, 2=ERS-2, 3=SA, 4=EA, 5=ORS, 6=ORE	1	6		1	
543	1757	nvoXZ_Tempregmod	SNVT_count	**Xzone tempregmode**					
				Xzone ERS-1 reg.					
544	1760	nviXZ_ERS1step	SNVT_count	**Xzone ERS 1 Step** Curve setting according to the diagram for ERS 1.	1	4			
545	1761	nvoXZ_ERS1step	SNVT_count	**Xzone ERS 1 Step**					
546	1762	nviXZ_ERS1diff	SNVT_temp_p	**Xzone SA temp diff set ERS 1** Supply air temp differental setting according to the diagram for ERS 1.	1	7.00	K	2.00	
547	1763	nvoXZ_ERS1diff	SNVT_temp_p	**Xzone SA temp diff set ERS 1**					
548	1764	nviXZ_ERS1brkpnt	SNVT_temp_p	**Xzone ERS 1 Brkpnt** Breakpoint temp setting according to the diagram for ERS 1.	12.00	26.00	°C	22.00	
549	1765	nvoXZ_ERS1brkpnt	SNVT_temp_p	**Xzone ERS 1 Brkpnt**					
				Xzone ERS-2 reg.					
550	1770	nviXZ_ERS2_X1	SNVT_temp_p	**Xzone ERS 2 Brkpnt_X1** Breakpoint X1 setting according to the diagram for ERS 2.	10	NV 553	°C	15.00	
551	1771	nvoXZ_ERS2_X1	SNVT_temp_p	**Xzone ERS 2 Brkpnt_X1**					
552	1772	nviXZ_ERS2_X2	SNVT_temp_p	**Xzone ERS 2 Brkpnt_X2** Breakpoint X2 setting according to the diagram for ERS 2.	NV 551	NV 555	°C	20.00	
553	1773	nvoXZ_ERS2_X2	SNVT_temp_p	**Xzone ERS 2 Brkpnt_X2**					
554	1774	nviXZ_ERS2_X3	SNVT_temp_p	**Xzone ERS 2 Brkpnt_X3** Breakpoint X3 setting according to the diagram for ERS 2.	NV 553	NV 557	°C	22.00	
555	1775	nvoXZ_ERS2_X3	SNVT_temp_p	**Xzone ERS 2 Brkpnt_X3**					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
556	1776	nviXZ_ERS2_X4	SNVT_temp_p	**Xzone ERS 2 Brkpnt_X4** Breakpoint X4 setting according to the diagram for ERS 2.	NV 555	40.00	°C	24.00	
557	1777	nvoXZ_ERS2_X4	SNVT_temp_p	**Xzone ERS 2 Brkpnt_X4**					
558	1778	nviXZ_ERS2_Y1	SNVT_temp_p	**Xzone ERS 2 Brkpnt_Y1** Breakpoint Y1 setting according to the diagram for ERS 2.	10.00	40.00	°C	20.00	
559	1779	nvoXZ_ERS2_Y1	SNVT_temp_p	**Xzone ERS 2 Brkpnt_Y1**					
560	1780	nviXZ_ERS2_Y2	SNVT_temp_p	**Xzone ERS 2 Brkpnt_Y2** Breakpoint Y2 setting according to the diagram for ERS 2.	10.00	40.00	°C	18.00	
561	1781	nvoXZ_ERS2_Y2	SNVT_temp_p	**Xzone ERS 2 Brkpnt_Y2**					
562	1782	nviXZ_ERS2_Y3	SNVT_temp_p	**Xzone ERS 2 Brkpnt_Y3** Breakpoint Y3 setting according to the diagram for ERS 2.	10.00	40.00	°C	14.00	
563	1783	nvoXZ_ERS2_Y3	SNVT_temp_p	**Xzone ERS 2 Brkpnt_Y3**					
564	1784	nviXZ_ERS2_Y4	SNVT_temp_p	**Xzone ERS 2 Brkpnt_Y4** Breakpoint Y4 setting according to the diagram for ERS 2.	10.00	40.00	°C	12.00	
565	1785	nvoXZ_ERS2_Y4	SNVT_temp_p	**Xzone ERS 2 Brkpnt_Y4**					
				Xzone SA Reg.					
566	1790	nviXZ_SAtempset	SNVT_temp_p	**Xzone SA temp** Supply air temperature setting, for supply air temp regulation mode.	10.00	40.00	°C	21.00	
567	1791	nvoXZ_SAtempset	SNVT_temp_p	**Xzone SA temp**					
				Xzone EA Reg.					
568	1796	nviXZ_EAtempset	SNVT_temp_p	**Xzone EA temp** Extract air/room temperature setting, for Extract air/room temp regulation mode.	10.00	40.00	°C	21.00	
569	1797	nvoXZ_EAtempset	SNVT_temp_p	**Xzone EA temp**					
570	1798	nviXZ_MinSAtemp	SNVT_temp_p	**Xzone SA Min temp** Supply air min. set point during EA/room regulation mode.	8.00	20.00	°C	16.00	
571	1799	nvoXZ_MinSAtemp	SNVT_temp_p	**Xzone SA Min temp**					
572	1800	nviXZ_MaxSAtemp	SNVT_temp_p	**Xzone SA Max temp** Supply air max. set point during EA/room regulation mode.	16.00	50.00	°C	28.00	
573	1801	nvoXZ_MaxSAtemp	SNVT_temp_p	**Xzone SA Max temp**					
574	1802	nviXZ_EA_P-band	SNVT_temp_p	**Xzone P-band**	1.00	10.00	K	5.00	
575	1803	nvoXZ_EA_P-band	SNVT_temp_p	**Xzone P-band**					
576	1804	nviXZ_EA_I-time	SNVT_time_sec	**Xzone I-time**	1	1800	s	180	
577	1805	nvoXZ_EA_I-time	SNVT_time_sec	**Xzone I-time**					
				Xzone ORS Reg.					
578	1806	nviXZ_ORS_X1	SNVT_temp_p	**Xzone ORS Brkpnt_X1** Breakpoint X1 setting according to the diagram for ORS.	-5.00	NV 581	°C	-20.00	
579	1807	nvoXZ_ORS_X1	SNVT_temp_p	**Xzone ORS Brkpnt_X1**					
580	1808	nviXZ_ORS_X2	SNVT_temp_p	**Xzone ORS Brkpnt_X2** Breakpoint X2 setting according to the diagram for ORS.	NV 579	NV 583	°C	-10.00	
581	1809	nvoXZ_ORS_X2	SNVT_temp_p	**Xzone ORS Brkpnt_X2**					
582	1810	nviXZ_ORS_X3	SNVT_temp_p	**Xzone ORS Brkpnt_X3** Breakpoint X3 setting according to the diagram for ORS.	NV 581	NV 585	°C	10.00	
583	1811	nvoXZ_ORS_X3	SNVT_temp_p	**Xzone ORS Brkpnt_X3**					
584	1812	nviXZ_ORS_X4	SNVT_temp_p	**Xzone ORS Brkpnt_X4** Breakpoint X4 setting according to the diagram for ORS.	NV 583	50.00	°C	20.00	
585	1813	nvoXZ_ORS_X4	SNVT_temp_p	**Xzone ORS Brkpnt_X4**					
586	1814	nviXZ_ORS_Y1	SNVT_temp_p	**Xzone ORS Brkpnt_Y1** Breakpoint Y1 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
587	1815	nvoXZ_ORS_Y1	SNVT_temp_p	**Xzone ORS Brkpnt_Y1**					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
588	1816	nviXZ_ORS_Y2	SNVT_temp_p	**Xzone ORS Brkpnt_Y2** Breakpoint Y2 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
589	1817	nvoXZ_ORS_Y2	SNVT_temp_p	**Xzone ORS Brkpnt_Y2**					
590	1818	nviXZ_ORS_Y3	SNVT_temp_p	**Xzone ORS Brkpnt_Y3** Breakpoint Y3 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
591	1819	nvoXZ_ORS_Y3	SNVT_temp_p	**Xzone ORS Brkpnt_Y3**					
592	1820	nviXZ_ORS_Y4	SNVT_temp_p	**Xzone ORS Brkpnt_Y4** Breakpoint Y4 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
593	1821	nvoXZ_ORS_Y4	SNVT_temp_p	**Xzone ORS Brkpnt_Y4**					
				Xzone ORE Reg.					
594	1826	nviXZ_ORE_X1	SNVT_temp_p	**Xzone ORE Brkpnt_X1** Breakpoint X1 setting according to the diagram for ORE.	-5.00	NV 597	°C	-20.00	
595	1827	nvoXZ_ORE_X1	SNVT_temp_p	**Xzone ORE Brkpnt_X1**					
596	1828	nviXZ_ORE_X2	SNVT_temp_p	**Xzone ORE Brkpnt_X2** Breakpoint X2 setting according to the diagram for ORE.	NV 595	NV 599	°C	-10.00	
597	1829	nvoXZ_ORE_X2	SNVT_temp_p	**Xzone ORE Brkpnt_X2**					
598	1830	nviXZ_ORE_X3	SNVT_temp_p	**Xzone ORE Brkpnt_X3** Breakpoint X3 setting according to the diagram for ORE.	NV 597	NV 601	°C	10.00	
599	1831	nvoXZ_ORE_X3	SNVT_temp_p	**Xzone ORE Brkpnt_X3**					
600	1832	nviXZ_ORE_X4	SNVT_temp_p	**Xzone ORE Brkpnt_X4** Breakpoint X4 setting according to the diagram for ORE.	NV 599	50.00	°C	20.00	
601	1833	nvoXZ_ORE_X4	SNVT_temp_p	**Xzone ORE Brkpnt_X4**					
602	1834	nviXZ_ORE_Y1	SNVT_temp_p	**Xzone ORE Brkpnt_Y1** Breakpoint Y1 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
603	1835	nvoXZ_ORE_Y1	SNVT_temp_p	**Xzone ORE Brkpnt_Y1**					
604	1836	nviXZ_ORE_Y2	SNVT_temp_p	**Xzone ORE Brkpnt_Y2** Breakpoint Y2 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
605	1837	nvoXZ_ORE_Y2	SNVT_temp_p	**Xzone ORE Brkpnt_Y2**					
606	1838	nviXZ_ORE_Y3	SNVT_temp_p	**Xzone ORE Brkpnt_Y3** Breakpoint Y3 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
607	1839	nvoXZ_ORE_Y3	SNVT_temp_p	**Xzone ORE Brkpnt_Y3**					
608	1840	nviXZ_ORE_Y4	SNVT_temp_p	**Xzone ORE Brkpnt_Y4** Breakpoint Y4 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
609	1841	nvoXZ_ORE_Y4	SNVT_temp_p	**Xzone ORE Brkpnt_Y4**					
				Xzone external sensors					
610	1854	nviXZ_RoomTempFu	SNVT_count	**Xzone EA/Room temp ext func** 0=Average, 1=Min, 2=Max	0	2		0	
611	1855	nvoXZ_RoomTempFu	SNVT_count	**Xzone EA/Room temp ext func**					
612	1856	nviXZ_RoomBMSFu	SNVT_count	**Xzone EA/Room temp from BMS func**	0	1		0	
613	1857	nvoXZ_RoomBMSFu	SNVT_count	**Xzone EA/Room temp from BMS func**					
614	1858	nviXZ_RoomTmpBMS	SNVT_temp_p	**Xzone EA/Room temp from BMS**	-55.00	125.00	°C	0.00	
615	1859	nvoXZ_RoomTmpBMS	SNVT_temp_p	**Xzone EA/Room temp from BMS**					
616	1860	nviXZ_RoomBMSAl	SNVT_time_min	**Xzone EA/Room temp from BMS alarm**	0	9999	min	5	
617	1861	nvoXZ_RoomBMSAl	SNVT_time_min	**Xzone EA/Room temp from BMS alarm**					
				Xzone Heat/Cool					
618	1866	nviXZ_ReHeat_P-b	SNVT_temp_p	**Xzone ReHeat P-band**	1.00	10.00	K	8.00	
619	1867	nvoXZ_ReHeat_P-b	SNVT_temp_p	**Xzone ReHeat P-band**					
620	1868	nviXZ_ReHeat_I-t	SNVT_time_sec	**Xzone ReHeat I-time**	1	1800	s	70	
621	1869	nvoXZ_ReHeat_I-t	SNVT_time_sec	**Xzone ReHeat I-time**					
622	1888	nviXZ_Cool_reg_f	SNVT_count	**Xzone Cool on/off regulation func** 0=Inactive, 1=1 step, 2=2 steps, 3=3 steps.	0	3		0	
623	1889	nvoXZ_Cool_reg_f	SNVT_count	**Xzone Cool on/off regulation func**					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
624	1890	nviXZ_Cool_SA_NZ	SNVT_temp_p	**Xzone Cool SA neutral zone**	0.50	10.00	K	2.00	
625	1891	nvoXZ_Cool_SA_NZ	SNVT_temp_p	**Xzone Cool SA neutral zone**					
626	1892	nviXZ_Cool_EA_NZ	SNVT_temp_p	**Xzone Cool EA neutral zone**	0.50	10.00	K	2.00	
627	1893	nvoXZ_Cool_EA_NZ	SNVT_temp_p	**Xzone Cool EA neutral zone**					
628	1894	nviXZ_Cool_P-b	SNVT_temp_p	**Xzone Cool P-band**	1.00	10.00	K	6.00	
629	1895	nvoXZ_Cool_P-b	SNVT_temp_p	**Xzone Cool P-band**					
630	1896	nviXZ_Cool_I-t	SNVT_time_sec	**Xzone Cool I-time**	1	1800	s	60	
631	1897	nvoXZ_Cool_I-t	SNVT_time_sec	**Xzone Cool I-time**					
Pre-heat									
632	1918	nviPreHeatFunc	SNVT_count	**Preheating func**	0	1		0	
633	1919	nvoPreHeatFunc	SNVT_count	**Preheating func**					
634	1920	nviPreHeatTmpSet	SNVT_temp_p	**Preheating temp set**	-40.00	40.00	°C	5.00	
635	1921	nvoPreHeatTmpSet	SNVT_temp_p	**Preheating temp set**					
636	1922	nviPreHeat_P-b	SNVT_temp_p	**Preheat P-band**	1.00	10.00	K	8.00	
637	1923	nvoPreHeat_P-b	SNVT_temp_p	**Preheat P-band**					
638	1924	nviPreHeat_I-t	SNVT_time_sec	**Preheat I-time**	1	1800	s	70	
639	1925	nvoPreHeat_I-t	SNVT_time_sec	**Preheat I-time**					
ReCO$_2$									
640	1944	nviReCO2_CO2_fu	SNVT_count	**ReCO2 CO2 func** 0=Inactive, 1=CO_2, 2=CO_2 and air flow boost	0	2		0	
641	1945	nvoReCO2_CO2_fu	SNVT_count	**ReCO2 CO2 func**					
642	1946	nviReCO2_Temp_fu	SNVT_count	**ReCO2 temp func** 0=Inactive, 1=Heat, 2=Cool, 3=Heat and Cool.	0	3		0	
643	1947	nvoReCO2_Temp_fu	SNVT_count	**ReCO2 temp func**					
644	1950	nviReCO2_CO2_set	SNVT_lev_percent	**ReCO2 CO2 set**	0.00	100.00	%	50.00	
645	1951	nvoReCO2_CO2_set	SNVT_lev_percent	**ReCO2 CO2 set**					
646	1952	nviReCO2_MinOutA	SNVT_flow	**ReCO2 min outdoor air**	0	NV 89	l/s		
647	1953	nvoReCO2_MinOutA	SNVT_flow	**ReCO2 min outdoor air**					
648	1954	nviReCO2_MinExhA	SNVT_flow	**ReCO2 min exhaust air**	0	NV 90	l/s		
649	1955	nvoReCO2_MinExhA	SNVT_flow	**ReCO2 min exhaust air**					
650	1956	nviReCO2_CO2_P-b	SNVT_lev_percent	**ReCO2 CO2 P-band**	1.00	100.00	%	50.00	
651	1957	nvoReCO2_CO2_P-b	SNVT_lev_percent	**ReCO2 CO2 P-band**					
652	1958	nviReCO2_CO2_I-t	SNVT_time_sec	**ReCO2 CO2 I-time**	1	1800	s	60	
653	1959	nvoReCO2_CO2_I-t	SNVT_time_sec	**ReCO2 CO2 I-time**					
654	1960	nviReCO2_CO2F_Pb	SNVT_lev_percent	**ReCO2 CO2 flow P-band**	10.00	100.00	%	50.00	
655	1961	nvoReCO2_CO2F_Pb	SNVT_lev_percent	**ReCO2 CO2 flow P-band**					
656	1962	nviReCO2_CO2F_It	SNVT_time_sec	**ReCO2 CO2 flow I-time**	1	1800	s	60	
657	1963	nvoReCO2_CO2F_It	SNVT_time_sec	**ReCO2 CO2 flow I-time**					
658	1964	nviReCO2_Heat_Pb	SNVT_lev_percent	**ReCO2 heat P-band**	1.00	10.00	K	7.00	
659	1965	nvoReCO2_Heat_Pb	SNVT_lev_percent	**ReCO2 heat P-band**					
660	1966	nviReCO2_Heat_It	SNVT_time_sec	**ReCO2 heat I-time**	1	1800	s	70	
661	1967	nvoReCO2_Heat_It	SNVT_time_sec	**ReCO2 heat I-time**					
662	1968	nviReCO2_Cool_Pb	SNVT_lev_percent	**ReCO2 cool P-band**	1.00	10.00	K	6.00	
663	1969	nvoReCO2_Cool_Pb	SNVT_lev_percent	**ReCO2 cool P-band**					
664	1970	nviReCO2_Cool_It	SNVT_time_sec	**ReCO2 cool I-time**	1	1800	s	60	
665	1971	nvoReCO2_Cool_It	SNVT_time_sec	**ReCO2 cool I-time**					
Humidity/VOC									
666	1980	nviHumidi_func	SNVT_count	**Humidi func** 0=Inactive, 1=on/off, 2=0-10V	0	2		0	
667	1981	nvoHumidi_func	SNVT_count	**Humidi func**					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
668	1984	nviHumidi_start	SNVT_lev_percent	Humidi on/off start	10.00	NV 671	%RH	40.00	
669	1985	nvoHumidi_start	SNVT_lev_percent	Humidi on/off start					
670	1986	nviHumidi_stop	SNVT_lev_percent	Humidi on/off stop	NV 669	95.00	%RH	45.00	
671	1988	nvoHumidi_stop	SNVT_lev_percent	Humidi on/off stop					
672	1994	nviHum_0-10_Set	SNVT_lev_percent	Humidi 0-10V set	10.00	95.00	%RH	30.00	
673	1995	nvoHum_0-10_Set	SNVT_lev_percent	Humidi 0-10V set					
674	1996	nviHum_0-10_Max	SNVT_lev_percent	Humidi 0-10V max	10.00	95.00	%RH	80.00	
675	1997	nvoHum_0-10_Max	SNVT_lev_percent	Humidi 0-10V max					
676	1998	nviHum_0-10_SA_P	SNVT_lev_percent	Humidi 0-10V SA P-band	1.00	80.00	%RH	60.00	
677	1999	nvoHum_0-10_SA_P	SNVT_lev_percent	Humidi 0-10V SA P-band					
678	2000	nviHum_0-10_SA_I	SNVT_time_sec	Humidi 0-10V SA I-time	1	1800	s	30	
679	2001	nvoHum_0-10_SA_I	SNVT_time_sec	Humidi 0-10V SA I-time					
680	1998	nviHum_0-10_EA_P	SNVT_lev_percent	Humidi 0-10V EA P-band	1.00	80.00	%RH	60.00	
681	1999	nvoHum_0-10_EA_P	SNVT_lev_percent	Humidi 0-10V EA P-band					
682	2000	nviHum_0-10_EA_I	SNVT_time_sec	Humidi 0-10V EA I-time	1	1800	s	180	
683	2001	nvoHum_0-10_EA_I	SNVT_time_sec	Humidi 0-10V EA I-time					
684	2014	nviDehumidi_Set	SNVT_lev_percent	Dehumidi setpoint	10.00	90.00	%RH	50.00	
685	2015	nvoDehumidi_Set	SNVT_lev_percent	Dehumidi setpoint					
				SMART Link					
686	2062	nviSL_WB_HeatSet	SNVT_temp_p	SL WB heat temp set	-40.0	176.0	°C	40.0	
687	2063	nvoSL_WB_HeatSet	SNVT_temp_p	SL WB heat temp set					
688	2064	nviSL_WB_HeatZon	SNVT_temp_p	SL WB heat temp zone	1.0	10.0	K	3.0	
689	2065	nvoSL_WB_HeatZon	SNVT_temp_p	SL WB heat temp zone					
690	2066	nviSL_WB_CoolSet	SNVT_temp_p	SL WB cool temp set	-40.0	176.0	°C	12.0	
691	2067	nvoSL_WB_CoolSet	SNVT_temp_p	SL WB cool temp set					
692	2068	nviSL_WB_CoolZon	SNVT_temp_p	SL WB cool temp zone	1.0	10.0	K	2.0	
693	2069	nvoSL_WB_CoolZon	SNVT_temp_p	SL WB cool temp zone					
694	2080	nviSL_WB_Op_V_Up	SNVT_lev_percent	SL WB op valve upper	5.0	90.0	%	80.0	
695	2081	nvoSL_WB_Op_V_Up	SNVT_lev_percent	SL WB op valve upper					
696	2082	nviSL_WB_Op_V_Lo	SNVT_lev_percent	SL WB op valve lower	70.0	100.0	%	100.0	
697	2083	nvoSL_WB_Op_V_Lo	SNVT_lev_percent	SL WB op valve lower					
698	2084	nviSL_WB_OpDelay	SNVT_time_sec	SL WB op time delay	30	32000	s	60	
699	2085	nvoSL_WB_OpDelay	SNVT_time_sec	SL WB op time delay					
700	2128	nviSL_DX_DeDelay	SNVT_time_sec	SL DX defrost time delay	30	900	s	90	
701	2129	nvoSL_DX_DeDelay	SNVT_time_sec	SL DX defrost time delay					
				AYC					
702	2146	nviAYCHeatTmpSet	SNVT_temp_p	AYC heat temp set	10.00	80.00	°C	30.00	
703	2147	nvoAYCHeatTmpSet	SNVT_temp_p	AYC heat temp set					
704	2172	nviAYCHeatOutCX1	SNVT_temp_p	AYC heat out cmp X1	-40.00	NV 707	°C	-20.00	
705	2173	nvoAYCHeatOutCX1	SNVT_temp_p	AYC heat out cmp X1					
706	2174	nviAYCHeatOutCX2	SNVT_temp_p	AYC heat out cmp X2	NV 705	NV 709	°C	0.00	
707	2175	nvoAYCHeatOutCX2	SNVT_temp_p	AYC heat out cmp X2					
708	2176	nviAYCHeatOutCX3	SNVT_temp_p	AYC heat out cmp X3	NV 707	NV 711	°C	5.00	
709	2177	nvoAYCHeatOutCX3	SNVT_temp_p	AYC heat out cmp X3					
710	2178	nviAYCHeatOutCX4	SNVT_temp_p	AYC heat out cmp X4	NV 709	40.00	°C	15.00	
711	2179	nvoAYCHeatOutCX4	SNVT_temp_p	AYC heat out cmp X4					
712	2180	nviAYCHeatOutCY1	SNVT_temp_p	AYC heat out cmp Y1	-40.00	40.00	°C	40.00	
713	2181	nvoAYCHeatOutCY1	SNVT_temp_p	AYC heat out cmp Y1					
714	2182	nviAYCHeatOutCY2	SNVT_temp_p	AYC heat out cmp Y2	-40.00	40.00	°C	30.00	
715	2183	nvoAYCHeatOutCY2	SNVT_temp_p	AYC heat out cmp Y2					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
716	2184	nviAYCHeatOutCY3	SNVT_temp_p	AYC heat out cmp Y3	-40.00	40.00	°C	20.00	
717	2185	nvoAYCHeatOutCY3	SNVT_temp_p	AYC heat out cmp Y3					
718	2186	nviAYCHeatOutCY4	SNVT_temp_p	AYC heat out cmp Y4	-40.00	40.00	°C	15.00	
719	2187	nvoAYCHeatOutCY4	SNVT_temp_p	AYC heat out cmp Y4					
720	2196	nviAYCHeatRoomCp	SNVT_temp_p	AYC heat room cmp tmp	0.00	40.00	°C	21.00	
721	2197	nvoAYCHeatRoomCp	SNVT_temp_p	AYC heat room cmp tmp					
722	2198	nviAYCHeatRoomPb	SNVT_temp_p	AYC heat room cmp P-band	1.00	10.00	K	5.00	
723	2199	nvoAYCHeatRoomPb	SNVT_temp_p	AYC heat room cmp P-band					
724	2206	nviAYCHeatNghtCp	SNVT_temp_p	AYC heat night cmp tmp	-10.00	10.00	K	-2.00	
725	2207	nvoAYCHeatNghtCp	SNVT_temp_p	AYC heat night cmp tmp					
726	2236	nviAYC_Heat_P-b	SNVT_temp_p	AYC heat P-band	1.00	40..00	K	15.00	
727	2237	nvoAYC_Heat_P-b	SNVT_temp_p	AYC heat P-band					
728	2238	nviAYC_Heat_I-t	SNVT_time_sec	AYC heat I-time	1	600	s	60	
729	2239	nvoAYC_Heat_I-t	SNVT_time_sec	AYC heat I-time					
730	2242	nviAYCCoolTmpSet	SNVT_temp_p	AYC cool temp set	10.00	80.00	°C	30.00	
731	2243	nvoAYCCoolTmpSet	SNVT_temp_p	AYC cool temp set					
732	2270	nviAYCCoolOutCX1	SNVT_temp_p	AYC cool out cmp X1	-40.00	NV 735	°C	-20.00	
733	2271	nvoAYCCoolOutCX1	SNVT_temp_p	AYC cool out cmp X1					
734	2272	nviAYCCoolOutCX2	SNVT_temp_p	AYC cool out cmp X2	NV 733	NV 737	°C	0.00	
735	2273	nvoAYCCoolOutCX2	SNVT_temp_p	AYC cool out cmp X2					
736	2274	nviAYCCoolOutCX3	SNVT_temp_p	AYC cool out cmp X3	NV 735	NV 739	°C	5.00	
737	2275	nvoAYCCoolOutCX3	SNVT_temp_p	AYC cool out cmp X3					
738	2276	nviAYCCoolOutCX4	SNVT_temp_p	AYC cool out cmp X4	NV 737	40.00	°C	15.00	
739	2277	nvoAYCCoolOutCX4	SNVT_temp_p	AYC cool out cmp X4					
740	2278	nviAYCCoolOutCY1	SNVT_temp_p	AYC cool out cmp Y1	-40.00	40.00	°C	40.00	
741	2279	nvoAYCCoolOutCY1	SNVT_temp_p	AYC cool out cmp Y1					
742	2280	nviAYCCoolOutCY2	SNVT_temp_p	AYC cool out cmp Y2	-40.00	40.00	°C	30.00	
743	2281	nvoAYCCoolOutCY2	SNVT_temp_p	AYC cool out cmp Y2					
744	2282	nviAYCCoolOutCY3	SNVT_temp_p	AYC cool out cmp Y3	-40.00	40.00	°C	20.00	
745	2283	nvoAYCCoolOutCY3	SNVT_temp_p	AYC cool out cmp Y3					
746	2284	nviAYCCoolOutCY4	SNVT_temp_p	AYC cool out cmp Y4	-40.00	40.00	°C	15.00	
747	2285	nvoAYCCoolOutCY4	SNVT_temp_p	AYC cool out cmp Y4					
748	2294	nviAYCCoolRoomCp	SNVT_temp_p	AYC cool room cmp tmp	0.00	40.00	°C	21.00	
749	2295	nvoAYCCoolRoomCp	SNVT_temp_p	AYC cool room cmp tmp					
750	2296	nviAYCCoolRoomPb	SNVT_temp_p	AYC cool room cmp P-band	1.00	10.00	K	5.00	
751	2297	nvoAYCCoolRoomPb	SNVT_temp_p	AYC cool room cmp P-band					
752	2304	nviAYCCoolNghtCp	SNVT_temp_p	AYC cool night cmp tmp	-10.00	10.00	K	-2.00	
753	2305	nvoAYCCoolNghtCp	SNVT_temp_p	AYC cool night cmp tmp					
754	2336	nviAYCCoolDewCpZ	SNVT_temp_p	AYC cool dew point cmp zone	0	5.00	K	2.00	
755	2337	nvoAYCCoolDewCpZ	SNVT_temp_p	AYC cool dew point cmp zone					
756	2338	nviAYCCoolDewCpS	SNVT_lev_percent	AYC cool dew point cmp speed Percent air flow boost of each increased chilled water set point.	0	30.00	%/K	10.00	
757	2339	nvoAYCCoolDewCpS	SNVT_lev_percent	AYC cool dew point cmp speed					
758	2344	nviAYC_Cool_P-b	SNVT_temp_p	AYC cool P-band	1.00	40..00	K	15.00	
759	2345	nvoAYC_Cool_P-b	SNVT_temp_p	AYC cool P-band					
760	2346	nviAYC_Cool_I-t	SNVT_time_sec	AYC cool I-time	1	600	s	60	
761	2347	nvoAYC_Cool_I-t	SNVT_time_sec	AYC cool I-time					
				Optimize					
762	2372	nviOptimize_func	SNVT_count	Optimize func	0	1		0	
763	2373	nvoOptimize_func	SNVT_count	Optimize func					

NV Index	SNVT No	SNVT Name	SNVT Type	Description	Min	Max	Unit	Default	Misc
764	2374	nviOptimizeSAset	SNVT_press_p	**Optimize SA press set**	20.0	750.0	Pa	0	
765	2375	nvoOptimizeSAset	SNVT_press_p	**Optimize SA press set**					
766	2376	nviOptimizeEAset	SNVT_press_p	**Optimize EA press set**	20.0	750.0	Pa	0	
767	2377	nvoOptimizeEAset	SNVT_press_p	**Optimize EA press set**					
				Operation level settings					
768	2684	nviComOperation	SNVT_count	**Com operation mode** 0=auto, 1=total stop, 2=low speed, 3=high speed, 4=normal stop, 5=extended normal stop.	0	5		0	
769	2685	nvoComOperation	SNVT_count	**Com operation mode**					
770	4000	nviComOp_Auto	SNVT_switch	**Auto Op**	0	1		0	
771	4001	nvoComOp_Auto	SNVT_switch	**Auto Op**					
772	4002	nviComOp_T_Stop	SNVT_switch	**Com total stop**	0	1		0	
773	4003	nvoComOp_T_Stop	SNVT_switch	**Com total stop**					
774	4004	nviComOp_LS	SNVT_switch	**Com LS**	0	1		0	
775	4005	nvoComOp_LS	SNVT_switch	**Com LS**					
776	4006	nviComOp_HS	SNVT_switch	**Com HS**	0	1		0	
777	4007	nvoComOp_HS	SNVT_switch	**Com HS**					
778	4008	nviComOp_N_Stop	SNVT_switch	**Com normal stop**	0	1		0	
779	4009	nvoComOp_N_Stop	SNVT_switch	**Com normal stop**					
780	4010	nviComOp_E_Stop	SNVT_switch	**Com extended stop**	0	1		0	
781	4011	nvoComOp_E_Stop	SNVT_switch	**Com extended stop**					
				Time schedule					
782	2930	nviClock	SNVT_time_stamp	**Clock** Setting for the unit's internal clock					
783	2931	nvoClock	SNVT_time_stamp	**Clock**					
784	2962	nviTS_DefaultAct	SNVT_count	**Time schedule default action** 1=Total stop, 2=Low speed, 3=High speed, 4=Normal stop, 5=Extended normal stop	1	5		2	
785	2963	nvoTS_DefaultAct	SNVT_count	**Time schedule default action**					
				Internal					
786	5000	nvoMajorVerLon	SNVT_count	**Major version of SW in GW** Major version of software in LonWorks gateway.					
787	5001	nvoMinorVerLon	SNVT_count	**Minor version of SW in GW** Minor version of software in LonWorks gateway.					
788	1	nvoObjStatus	SNVT_obj_status	**Response status variable to obj_request**					
789	2	nviObjRequest	SNVT_obj_request	**Request variable for status of obj_status**					
790		nciAutoSendTime	SNVT_time_sec	**Autoupdate of all netvars** This variable defines the time it takes for all the parameters to be automatically updated on the network. 0 = The Autosend function is disabled.					
791		nciSndHrtBt	SNVT_time_sec	**Send Heartbeat Time** 0 = The send heartbeat function is disabled.					
792		nciRcvHrtBt	SNVT_time_sec	**Receive Heartbeat Time** 0 = The receive heartbeat function is disabled.					
793		nciMinOutTm	SNVT_time_sec	**Min Time Between updates** Minimum period of time between automatic network variable output transmissons. 0 = The min time between function is disabled.					
794		nciLocation	SNVT_str_asc	**Location**					
795		nciSwitchCfg	SNVT_count	**SNVT_switch inp 0=as spec,>=1 value OR state**					