

FUNCTIONAL PROFILE:**GOLDen GATE Lonworks FTT-10, TBLZ-3-1-1-41, Version 5.00****GOLD Sizes 04-80, Version C, Program Version 5.00**



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 units sizes 04-80 ver. C, 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.

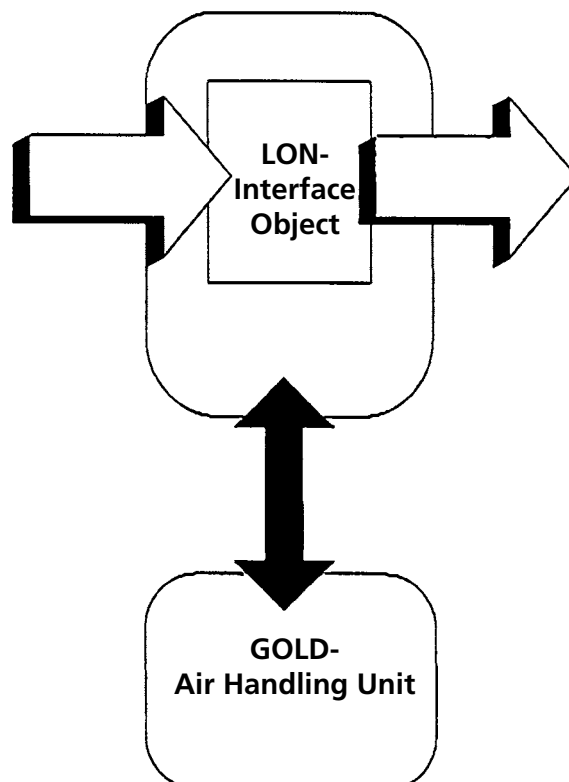
The interface is normally equipped with a Transceiver for Twisted Pair Open Topology (TP/FT-10). This is a ready-to-use module, developed and accepted by Echelon.

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 follows:

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 10 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.

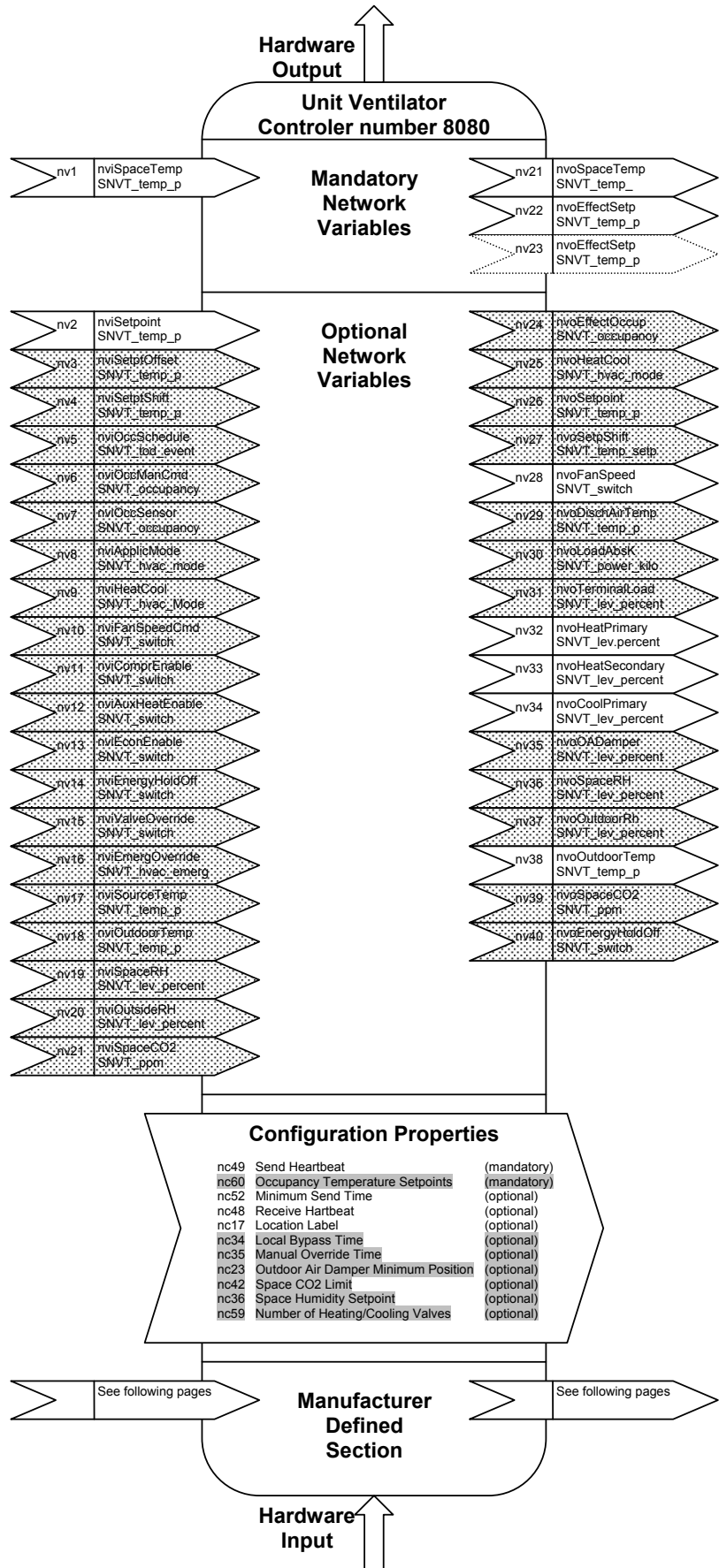
Wink Function

This command can be used for identifying the GOLD Air handling unit.

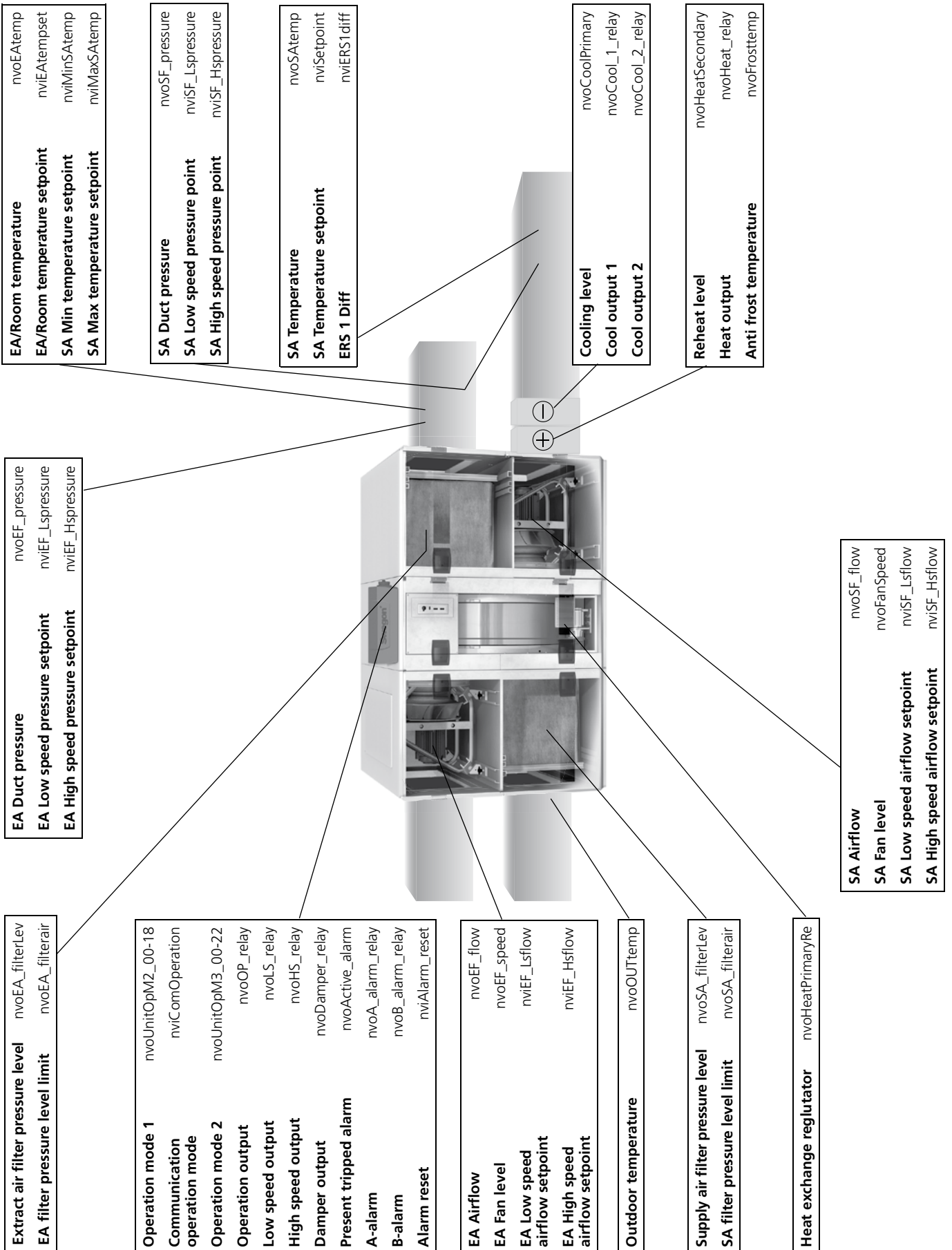
The "Serial Status" LEDs green and red flash alternately for 15 seconds while the Wink command is being transmitted to the LON interface.

This input variable 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).



Overview, parameters



NV Index	SNVT No	SNVT Name	SNVT Description	Min/Max	SNVT type
0	100	nviAlarm_reset	Alarm Reset Act	0-1	SNVT_switch
1	101	nvoAlarm_reset	Alarm Reset		
			Resets tripped alarms.		
2	102	nviSF_boost_func	SF Boost Act	0-1	SNVT_switch
3	103	nvoSF_boost_func	SF Boost		
			Setting for activating the boost function for the supply air fan.		
4	104	nviEF_boost_func	EF Boost Act	0-1	SNVT_switch
5	105	nvoEF_boost_func	EF Boost		
			Setting for activating the boost function for the extract air fan.		
6	106	nviHX_defr_func	Defrost Heat X Act	0-1	SNVT_switch
7	107	nvoHX_defr_func	Defrost Heat X		
			Setting for activating the defrost function for the rotary heat exchanger.		
8	114	nviCool_OP_func	Cool In Auto Act	0-1	SNVT_switch
9	115	nvoCool_OP_func	Cool In Auto		
			Setting for cooling between off and auto operation.		
10	116	nviNH_func	Intrmt Nght Heat Act	0-1	SNVT_switch
11	117	nvoNH_func	Intrmt Nght Heat		
			Setting for activating the intermittent night heat function.		
12	118	nviNH_damp_func	Damper funct Act	0-1	SNVT_switch
13	119	nvoNH_damp_func	Damper funct		
			Setting for activating the damper output relay during int. night heat.		
14	120	nviSC_func	Smr Nght Cool Act	0-1	SNVT_switch
15	121	nvoSC_func	Smr Nght Cool		
			Setting for activating the summer night cool function.		
16	122	nviTempdisp_func	Temp Disp offset Act	0-1	SNVT_switch
17	123	nvoTempdisp_func	Temp Disp offset		
			Setting for activating the external temperature displacement function.		
18	124	nviTempcomp_func	Out Temp Comp Act	0-1	SNVT_switch
19	125	nvoTempcomp_func	Out Temp Comp		
			Setting for activating the outdoor temperature compensation function.		
20	126	nviFlowcomp_func	Out Flow Comp Act	0-1	SNVT_switch
21	127	nvoFlowcomp_func	Out Flow Comp		
			Setting for activating the outdoor airflow compensation function.		
22	128	nviAutoS/W_func	Auto Summer/Winter Act	0-1	SNVT_switch
23	129	nvoAutoS/W_func	Auto Summer/Winter		
			Setting for activating the automatic switch between summer/winter time function.		
24	130	nviTS_func	Time Chan. Func Act	0-1	SNVT_switch
25	131	nvoTS_func	Time Chan. Func		
			Setting for switch clock function type. 0=Stop - low speed - high speed. 1=Low speed - high speed.		
26	132	nviInt_fire_func	Int Fire Al Act	0-1	SNVT_switch
27	133	nvoInt_fire_func	Int Fire Al		
			Setting for activating the internal fire alarm function.		
28	136	nviExt_alr1_func	Ext Al1 Cond Func Act	0-1	SNVT_switch
29	137	nvoExt_alr1_func	Ext Al1 Cond Func		
			Setting for external alarm number 1 condition to be activated. 0= alarm at closed input. 1= alarm at open input.		
30	138	nviExt_alr2_func	Ext Al2 Cond Func Act	0-1	SNVT_switch
31	139	nvoExt_alr2_func	Ext Al2 Cond Func		
			Setting for external alarm number 2 condition to be activated. 0= alarm at closed input. 1= alarm at open input.		
32	623	nviDewpoint_func	Dewpoint Act	0-1	SNVT_switch
33	624	nvoDewpoint_func	Dewpoint		
			Setting for activating the dewpoint regulator funktion.		
34	625	nviDehumid_func	Dehumid Act	0-1	SNVT_switch
35	626	nvoDehumid_func	Dehumid		
			Setting for activating the dehumid regulator funktion.		
36	627	nviExt_fire_func	Ext Fire Al Act	0-1	SNVT_switch
37	628	nvoExt_fire_func	Ext Fire Al		
			Setting for external fire resetting function. 0=Manual. 1=Automatic.		
38	629	nviExt_alr1_ReFu	Ext Al1 Res Func Act	0-1	SNVT_switch
39	630	nvoExt_alr1_ReFu	Ext Al1 Res Func		
			Setting for external alarm 1 resetting function. 0=Manual. 1=Automatic.		
40	631	nviExt_alr2_ReFu	Ext Al2 Res Func Act	0-1	SNVT_switch
41	632	nvoExt_alr2_ReFu	Ext Al2 Res Func		
			Setting for external alarm 2 resetting function. 0=Manual. 1=Automatic.		

42	633	nviTemp_alr_func	Temp Alarm Func Act	0-1	SNVT_switch
43	634	nvoTemp_alr_func	Temp Alarm Func Setting for activating temperature below setpoint alarm function (no.80).		
44	635	nviNH_OP_func	Intrmt Nght Heat OP Act	0-1	SNVT_switch
45	636	nvoNH_OP_func	Intrmt Nght Heat OP Setting for selecting the intermittent night heat output function. 0=IQnomic 1=IQnomic+		
46	142	nvoHeat_relay	Pmp Heat Status for relay output.	0-1	SNVT_switch
47	586	nvoCool_1_relay	Cool 1 Status for relay output.	0-1	SNVT_switch
48	587	nvoCool_2_relay	Cool 2 Status for relay output.	0-1	SNVT_switch
49	588	nvoLS_relay	Low Spd Status for relay output.	0-1	SNVT_switch
50	589	nvoHS_relay	High Spd Status for relay output.	0-1	SNVT_switch
51	590	nvoA_alarm_relay	Alrm A Status for relay output.	0-1	SNVT_switch
52	591	nvoB_alarm_relay	Alrm B Status for relay output.	0-1	SNVT_switch
53	592	nvoOP_relay	Operating Status for relay output.	0-1	SNVT_switch
54	593	nvoDamper_relay	Damper Status for relay output.	0-1	SNVT_switch
55	594	nvoExt_LS_inp	Ext Low Spd Status for digital input.	0-1	SNVT_switch
56	595	nvoExt_HS_inp	Ext High Spd Status for digital input.	0-1	SNVT_switch
57	596	nvoExt_alarm1inp	Ext Alrm A Status for digital input.	0-1	SNVT_switch
58	597	nvoExt_alarm2inp	Ext Alrm B Status for digital input.	0-1	SNVT_switch
59	598	nvoExt_fire_inp	Ext Fire Status for digital input.	0-1	SNVT_switch
60	599	nvoExt_stop_inp	Ext Stop Status for digital input.	0-1	SNVT_switch
61	600	nvoDip1	DIL 1 Status for dip switch setting.	0-1	SNVT_switch
62	601	nvoDip2	DIL 2 Status for dip switch setting.	0-1	SNVT_switch
63	602	nvoDip3	DIL 3 Status for dip switch setting.	0-1	SNVT_switch
64	603	nvoDip4	DIL 4 Status for dip switch setting.	0-1	SNVT_switch
65	604	nvoDip5	DIL 5 Status for dip switch setting.	0-1	SNVT_switch
66	605	nvoDip6	DIL 6 Status for dip switch setting.	0-1	SNVT_switch
67	637	nvoCHX_relay	C.HX. Pump output Status for coil heat exchanger pump output.	0-1	SNVT_switch
68	638	nvoRHX_rotation	R.HX rotation monitor Status from the rotation detector.	0-1	SNVT_switch
69	639	nvoXzone_heat_re	Xzone heat output Status for relay output.	0-1	SNVT_switch
70	640	nvoXzone_cool_r1	Xzone cool output 1 Status for relay output.	0-1	SNVT_switch
71	641	nvoXzone_cool_r2	Xzone cool output 2 Status for relay output.	0-1	SNVT_switch
72	642	nvoPreHeat_relay	Pre-heat output Status for relay output.	0-1	SNVT_switch
73	606	nvoAlarmOut	Alarm Out Location = "GOLD". Object ID = Alarm number (0-200). Alarm type = Contains either no alarm or an unspecified alarm. Priority level = alarm priority (No comm.=3, A=1, B=2 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.		SNVT_alarm
74	143	nvoSF_flow	Sup AF Present supply airflow.	0-8200l/s	SNVT_flow

75	144	nvoSF_flowreg	Sup AF reg Present supply airflow regulator setpoint.	0-8200l/s	SNVT_flow
76	145	nvoEF_flow	Ext AF Present extract airflow.	0-8200l/s	SNVT_flow
77	146	nvoEF_flowreg	Ext AF reg Present extract airflow regulator setpoint.	0-8200l/s	SNVT_flow
78	147	nvoSF_pressure	Sup air duct pres Present supply air duct pressure.	20-500Pa	SNVT_press_p
79	149	nvoSF_press_reg	Sup air duct pres reg Present supply air duct pressure regulator setpoint.	20-500Pa	SNVT_press_p
80	148	nvoEF_pressure	Ext air duct pres Present extract air duct pressure.	20-500Pa	SNVT_press_p
81	150	nvoEF_press_reg	Ext air duct pres reg Present extract air duct pressure regulator setpoint.	20-500Pa	SNVT_press_p
82	151	nvoSF_boost_lev	In sig supp air VAV dmnd or bst func Present input signal for supply air VAV demand or boosting function.	0-100.00%	SNVT_lev_percent
83	152	nvoSF_boost_reg	SA VAV dmnd regulator Present supply air VAV demand regulator setpoint.	0-100.00%	SNVT_lev_percent
84	153	nvoEF_boost_lev	In sig EA VAV dmnd or bst func Present input signal for extract air VAV demand or boosting function.	0-100.00%	SNVT_lev_percent
85	154	nvoEF_boost_reg	In sig EA VAV dmnd or bst func Present supply air VAV demand regulator setpoint.	0-100.00%	SNVT_lev_percent
86	28	nvoFanSpeed	Fan Speed Output Present running level for the supply air fan.	0-100.00%	SNVT_switch
87	155	nvoEF_speed	Run lvl ext air fan Present running level for the extract air fan.	0-100.00%	SNVT_switch
88	156	nvoSF_effect	Consm lev for sup air fan Present power consumption level for the supply air fan.	0-6500W	SNVT_power
89	157	nvoEF_effect	Consm lev for ext air fan Present power consumption level for the extract air fan.	0-6500W	SNVT_power
90	643	nvoSFP	SFP SFP supply air + extract air.	0.0-9.9	SNVT_lev_percent
91	158	nvoSF_frequency	Freq sup air fan Present frequency level for the supply air fan.	0-100.00Hz	SNVT_freq_hz
92	159	nvoEF_frequency	Freq ext air fan Present frequency level for the extract air fan.	0-100.00Hz	SNVT_freq_hz
93	607	nvoSF_voltage	Volt sup air fan Present voltage level for the supply air fan.	0-500V	SNVT_volt
94	608	nvoEF_voltage	Volt ext air fan Present voltage level for the extract air fan.	0-500V	SNVT_volt
95	160	nvoSF_current	Current sup air fan Present current level for the supply air fan.	0-30.000A	SNVT_amp
96	161	nvoEF_current	Current ext air fan Present current level for the extract air fan.	0-30.000A	SNVT_amp
97	844	nvoSF_fan_press	Sup air pres Present airflow pressure in the supply air fan inlet.	0-2000Pa	SNVT_press_p
98	845	nvoEF_fan_press	Ext air pres Present airflow pressure in the extract air fan inlet.	0-2000Pa	SNVT_press_p
99	22	nvoEffectSetpt	Effective Setpoint Output (sup air) Present supply air temperature regulator setpoint.	5.00-40.00°C	SNVT_temp_p
100	162	nvoEAtempset_reg	Ext air temp regulator Present extract air temperature regulator setpoint.	5.00-40.00°C	SNVT_temp_p
101	163	nvoSAtemp	Sup air temp Present supply air temperature.	5.00-40.00°C	SNVT_temp_p
102	164	nvoEAtemp	Ext air/room temp in unit Present extract air/room temperature in the unit.	5.00-40.00°C	SNVT_temp_p
103	165	nvoOUTtemp	Outd air temp in unit Present outdoor air temperature in the unit.	5.00-40.00°C	SNVT_temp_p
104	1	nviSpaceTemp	Space Temperature Input	5.00-40.00°C	SNVT_temp_p
105	21	nvoSpaceTemp	Space Temperature Input Present room temperature external from the unit. nviSpaceTemp Not used in present SW version. Se also nviRoomTempComSe NV index 632.	5.00-40.00°C	SNVT_temp_p
106	38	nvoOutdoorTemp	Outdoor Air Temperature Output Present outdoor air temperature external from the unit.	5.00-40.00°C	SNVT_temp_p
107	166	nvoFrosttemp	Anti frost temp Present anti frost temperature for water reheating coils.	0-40.00°C	SNVT_temp_p
108	846	nvoTempsens3	Tempsens3 Present temperature for temp sensor no.3	0.00-40.00°C	SNVT_temp_p
109	847	nvoTempsens4	Tempsens4 Present temperature for temp sensor no.4	0.00-40.00°C	SNVT_temp_p
110	32	nvoHeatPrimary	Prim Heat Output Present running level of heat exchange.	0-100.00%	SNVT_lev_percent

111	33	nvoHeatSecondary	Sec Heat Output Present level of reheat.	0-100.00%	SNVT_lev_percent
112	167	nvoSFdownreg	Lev sup air dwn reg Present level of supply airflow down regulation.	0-100.00%	SNVT_lev_percent
113	168	nvoEXreg	Lev extra reg seq Present level of the extra regulation sequence.	0-100.00%	SNVT_lev_percent
114	34	nvoCoolPrimary	Primary Cool Output Present level of cooling.	0-100.00%	SNVT_lev_percent
115	169	nvoHeatboost	Lev heat boost Present level of heating boost.	0-100.00%	SNVT_lev_percent
116	170	nvoCoolboost	Lev cool boost Present level of cooling boost.	0-100.00%	SNVT_lev_percent
117	171	nvoHX_pressure	Press drop rot heat exchr Present pressure drop for the rotary heat exchanger.	0-1000Pa	SNVT_press_p
118	172	nvoHX_pressalr	Press drop alarm lmt rot heat exchr Present pressure drop alarm limit for the rotary heat exchanger.	0-1000Pa	SNVT_press_p
119	848	nvoHX_temp_cont	HX temp inside control Present temperature inside the control unit for the rotary heat exchanger.	0.00-100.00°C	SNVT_temp_p
120	173	nvoEffectred	Lev elctr rhtrs Present level of max output signal for electrical reheaters, active during low supply airflow.	0-100.00%	SNVT_lev_percent
121	849	nvoFrostSetOp	Anti frost temp set operation Present anti frost temperature setpoint for water reheating coils during unit operation.	0.00-40.00°C	SNVT_temp_p
122	850	nvoFrostSetStop	Anti frost temp set stop Present anti frost temperature setpoint for water reheating coils when the unit is in stop.	0.00-40.00°C	SNVT_temp_p
123	851	nvoFrostAlLimit	Anti frost temp alarm limit Setting of antifrost temperature alarm limit.	5.00-30.00°C	SNVT_temp_p
124	174	nvoSA_filterLev	Sup air fit prs drop Present supply air filter pressure drop.	50-300Pa	SNVT_press_p
125	175	nvoSA_filteralr	Sup air fit prs drop alm lev Present supply air filter pressure alarm limit.	50-300Pa	SNVT_press_p
126	852	nvoSA_filterLevN	Sup air fit prs drop new Supply air filter pressure saved from calibration.	50-300Pa	SNVT_press_p
127	176	nvoEA_filterLev	Ext air fit prs drop Present extract air filter pressure drop.	50-300Pa	SNVT_press_p
128	177	nvoEA_filteralr	Ext air fit prs drop alm lev Present extract air filter pressure alarm limit.	50-300Pa	SNVT_press_p
129	853	nvoEA_filterLevN	Ext air fit prs drop new Extract air filter pressure saved from calibration.	50-300Pa	SNVT_press_p
130	178	nvoTempdisplace	Temp displacement frm inpt sig Present temperature displacement from input signal.	-5.00 - 5.00°C	SNVT_temp_p
131	179	nvoBatttype	Reheat coil type Present connected reheat coil type.	0-20	SNVT_count
132	180	nvoCoolstep_rem	Time btwn cool step shift Present time between cool step shift.	0-600s	SNVT_time_sec
133	181	nvoCool1_res_rem	Time btwn strts of cool rly 1. Present time between two starts of cool relay 1.	0-900s	SNVT_time_sec
134	182	nvoCool2_res_rem	Time btwn strts of cool rly 2. Present time between two starts of cool relay 2.	0-900s	SNVT_time_sec
135	183	nvoCPUver	Prog ver main ctrl unit Present programversion for the main control unit.	0-9999	SNVT_count
136	184	nvoWeekday	Day of week Present weekday for the unit's internal clock.		SNVT_date_day
137	185	nvoExtendLS_hour	Extnd low spd hour Present time for extended low speed operation.	0-23	SNVT_time_hour
138	186	nvoExtendLS_min	Extnd low spd min Present time for extended low speed operation.	0-59	SNVT_time_min
139	185	nvoExtendHS_hour	Extnd high spd hour Present time for extended high speed operation.	0-23	SNVT_time_hour
140	186	nvoExtendHS_min	Extnd high spd min Present time for extended high speed operation.	0-59	SNVT_time_min
141	187	nvoSF_Optime	Sup air fan op time days Present operation time for the supply air fan, measured in minutes and present in days (24h).	0-9999	SNVT_count
142	188	nvoEF_Optime	Ext air fan op time days Present operation time for the extract air fan, measured in minutes and present in days (24h).	0-9999	SNVT_count
143	189	nvoCool_Optime	Cooling op time days Present operation time for cooling, measured in minutes and present in days (24h).	0-9999	SNVT_count

144	190	nvoHX_Optime	HeatX op time days Present operation time for heat exchange, measured in minutes and present in days (24h).	0-9999	SNVT_count
145	191	nvoHeat_Optime	Reheat op time days Present operation time for reheat, measured in minutes and present in days (24h).	0-9999	SNVT_count
146	192	nvoActive_alarm	Alarm Present tripped alarm number with highest priority.	0-200	SNVT_count
147	193	nvoDelay_alarm1	Delayed Alarm1 Present active alarm in delay.	0-200	SNVT_count
148	194	nvoDelay_alarm2	Delayed Alarm2 Present active alarm in delay.	0-200	SNVT_count
149	195	nvoDelay_alarm3	Delayed Alarm3 Present active alarm in delay.	0-200	SNVT_count
150	196	nvoSF_size	Sup air fan size Present supply air fan size.	04 - 80	SNVT_count
151	197	nvoEF_size	Ext air fan size Present extract air fan size.	04 - 80	SNVT_count
152	198	nvoUnitOpM2_00	Stop Operation mode 2=Stop.	0-1	SNVT_switch
153	199	nvoUnitOpM2_01	Ext Stop Operation mode 2=Ext. Stop	0-1	SNVT_switch
154	200	nvoUnitOpM2_02	Com Stop 1 Operation mode 2=Com. Stop 1.	0-1	SNVT_switch
155	201	nvoUnitOpM2_03	High spd Operation mode 2=High speed.	0-1	SNVT_switch
156	202	nvoUnitOpM2_04	Smrnight Cool Operation mode 2=Summer night cooling.	0-1	SNVT_switch
157	203	nvoUnitOpM2_05	Int nightheat Operation mode 2=Int. night heat.	0-1	SNVT_switch
158	204	nvoUnitOpM2_06	Lw spd Operation mode 2=Low speed	0-1	SNVT_switch
159	205	nvoUnitOpM2_07	Ext high spd Operation mode 2=Ext. high speed.	0-1	SNVT_switch
160	206	nvoUnitOpM2_08	Com high spd Operation mode 2=Com. high speed.	0-1	SNVT_switch
161	207	nvoUnitOpM2_09	Switch clk stop Operation mode 2=Switch clock=stop.	0-1	SNVT_switch
162	208	nvoUnitOpM2_10	High spd 1Operation mode 2=High speed.	0-1	SNVT_switch
163	209	nvoUnitOpM2_11	Lw spd Operation mode 2=Low speed.	0-1	SNVT_switch
164	210	nvoUnitOpM2_12	High spd Operation mode 2=High speed.	0-1	SNVT_switch
165	211	nvoUnitOpM2_13	Ext Lw spd Operation mode 2=Ext. low speed.	0-1	SNVT_switch
166	212	nvoUnitOpM2_14	Com Lw spd Operation mode 2=Com. low speed.	0-1	SNVT_switch
167	213	nvoUnitOpM2_15	Lw spd Operation mode 2=Low speed.	0-1	SNVT_switch
168	214	nvoUnitOpM2_16	Switch clk stop Operation mode 2=Switch clock=stop.	0-1	SNVT_switch
169	215	nvoUnitOpM2_17	Lw spd stop Operation mode 2=Low speed=stop.	0-1	SNVT_switch
170	615	nvoUnitOpM2_18	Com Stop 2 Operation mode 2=Com. Stop 2.	0-1	SNVT_switch
171	216	nvoUnitOpM3_00	 Operation mode 3=Not used.	0-1	SNVT_switch
172	217	nvoUnitOpM3_01	Coold air recovery Operation mode 3=Coold air recovery.	0-1	SNVT_switch
173	218	nvoUnitOpM3_02	Cooling boost Operation mode 3=Cooling boost.	0-1	SNVT_switch
174	219	nvoUnitOpM3_03	SA down reg Operation mode 3=SA down regulation.	0-1	SNVT_switch
175	220	nvoUnitOpM3_04	HX defr Operation mode 3=HX defrosting.	0-1	SNVT_switch
176	221	nvoUnitOpM3_05	Anti frost func. Act Operation mode 3=Anti frost func. active.	0-1	SNVT_switch
177	222	nvoUnitOpM3_06	Effect reduct Operation mode 3=Effect reduction.	0-1	SNVT_switch
178	223	nvoUnitOpM3_07	Startup Operation mode 3=Startup.	0-1	SNVT_switch
179	224	nvoUnitOpM3_08	Zero cal Operation mode 3=Zero calibration.	0-1	SNVT_switch

180	225	nvoUnitOpM3_09	Ext Lw spd Operation mode 3=Extended low speed.	0-1	SNVT_switch
181	226	nvoUnitOpM3_10	Ext High spd Operation mode 3=Extended high speed.	0-1	SNVT_switch
182	227	nvoUnitOpM3_11	Air adjust Operation mode 3=Air adjustment.	0-1	SNVT_switch
183	228	nvoUnitOpM3_12	Cooling off Operation mode 3=Cooling off.	0-1	SNVT_switch
184	229	nvoUnitOpM3_13	Purging R.HX Operation mode 3=Purging R.HX.	0-1	SNVT_switch
185	230	nvoUnitOpM3_14	Ext R.HX. Op Operation mode 3=Extended R.HX. op.	0-1	SNVT_switch
186	231	nvoUnitOpM3_15	Filter cal Operation mode 3=Filter calibration.	0-1	SNVT_switch
187	232	nvoUnitOpM3_16	RH.HX cal Operation mode 3=R.HX. calibration	0-1	SNVT_switch
188	233	nvoUnitOpM3_17	Morning bst Operation mode 3=Morning boost.	0-1	SNVT_switch
189	234	nvoUnitOpM3_18	Heat bst Operation mode 3=Heating boost.	0-1	SNVT_switch
190	235	nvoUnitOpM3_19	Alarm Operation mode 3=Alarm.	0-1	SNVT_switch
191	616	nvoUnitOpM3_20	CoolDX press red Operation mode 3=CoolDX pressure reduction.	0-1	SNVT_switch
192	617	nvoUnitOpM3_21	Startup EA fan Operation mode 3=Startup extract air fan.	0-1	SNVT_switch
193	618	nvoUnitOpM3_22	Fan heat retention Operation mode 3=Fan heat retention.	0-1	SNVT_switch
194	236	nvoUnitOpM1_Stop	Stop Present manual operation set on the unit's handterminal, Stop	0-1	SNVT_switch
195	237	nvoUnitOpM1_Auto	Auto Present manual operation set on the unit's handterminal, Auto operation	0-1	SNVT_switch
196	238	nvoUnitOpM1_LS	LS Present manual operation set on the unit's handterminal, Manual low speed	0-1	SNVT_switch
197	239	nvoUnitOpM1_HS	HS Present manual operation set on the unit's handterminal, Manual high speed.	0-1	SNVT_switch
198	644	nvoHeatPrimaryRe	Heat exchange reg Present level of heat exchange regulator RX/CX/PX.	0-100.00%	SNVT_lev_percent
199	645	nvoEA_humidity	Extract air-humidity Present level of extract air-humidity.	0-100.00%	SNVT_lev_percent
200	646	nvoEA_humidity_t	Extract air-humidity temp Present temperature inside extract air-humidity sensor.	0-40.00°C	SNVT_temp_p
201	647	nvoEA_dewpoint	Extract air-dewpoint Calculated extract air-dewpoint.	0-40.00°C	SNVT_temp_p
202	648	nvoChilled_w_t	Chilled water temp Present chilled water temperature.	0-40.00°C	SNVT_temp_p
203	649	nvoChilled_w_t_r	Chilled water temp reg Present chilled water temperature regulator setpoint.	0-40.00°C	SNVT_temp_p
204	650	nvoChilled_w_rel	Chilled water output Present level of chilled water output.	0-100.00%	SNVT_lev_percent
205	651	nvoSA_dewpoint_r	Supply air-dewpoint reg Present supply air-dewpoint regulator setpoint.	0-40.00°C	SNVT_temp_p
206	652	nvoSA_humidity	Supply air-humidity Present level of supply air-humidity	0-100.00%	SNVT_lev_percent
207	653	nvoSA_humidity_t	Supply air-humidity temp Present temperature inside supply air-humidity sensor.	0-40.00°C	SNVT_temp_p
208	654	nvoSA_dewpoint	Supply air-dewpoint Calculated supply air-dewpoint.	0-40.00°C	SNVT_temp_p
209	655	nvoCHX_temp	C.HX. Temp Present temperature of coil heat exchanger.	0-40.00°C	SNVT_temp_p
210	656	nvoPHX_temp_1	P.HX. Temp 1 Present temperature 1 of plate heat exchanger.	0-40.00°C	SNVT_temp_p
211	657	nvoPHX_temp_2	P.HX. Temp 2 Present temperature 2 of plate heat exchanger.	0-40.00°C	SNVT_temp_p
212	658	nvoPCHX_humidity	P/C.HX. Humidity Present level of air-humidity in plate/coil heat exchanger.	0-100.00%	SNVT_lev_percent
213	659	nvoRHX_eff	R.HX. Efficiency Calculated level of rotary heat exchanger efficiency.	0-100.00%	SNVT_lev_percent
214	660	nvoCHX_valve_op	C.HX. Valve output Present level of coil heat exchanger valve output.	0-100.00%	SNVT_lev_percent

215	661	nvoPHX_bypass_op	P.HX. bypass output Present level of plate heat exchanger bypass output.	0-100.00%	SNVT_lev_percent
216	662	nvoSA_PfilterLev	Sup air prefltr prs drop Present supply air prefilter pressure drop.	50-300Pa	SNVT_press_p
217	663	nvoSA_PfilterAlr	Sup air prefltr prs drop alm lev Present supply air prefilter pressure alarm limit.	50-300Pa	SNVT_press_p
218	854	nvoSA_PfltrLevN	Sup air prefltr prs drop new Supply air prefilter pressure saved from calibration.	50-300Pa	SNVT_press_p
219	664	nvoEA_PfilterLev	Ext air prefltr prs drop Present extract air prefilter pressure drop.	50-300Pa	SNVT_press_p
220	665	nvoEA_PfilterAlr	Ext air prefltr prs drop alm lev Present extract air prefilter pressure alarm limit.	50-300Pa	SNVT_press_p
221	855	nvoEA_PfltrLevN	Ext air prefltr prs drop new Extract air prefilter pressure saved from calibration.	50-300Pa	SNVT_press_p
222	666	nvoXzoneHeatSec	Xzone Sec Heat Output Present level of Xzone reheat.	0-100.00%	SNVT_lev_percent
223	667	nvoXzoneFrosttem	Xzone Anti frost temp Present anti frost temperature for water reheating coils.	0-40.00°C	SNVT_temp_p
224	668	nvoXzoneCoolPrim	Xzone Primary Cool Output Present level of Xzone cooling.	0-100.00%	SNVT_lev_percent
225	669	nvoXzoneCoolStep	Time btwn Xzone cool step shift Present time between Xzone cool step shift.	0-600s	SNVT_time_sec
226	670	nvoXzoneCool1Res	Time btwn strt of Xzone cool rly 1. Present time between two starts of Xzone cool relay 1.	0-900s	SNVT_time_sec
227	671	nvoXzoneCool2Res	Time btwn strt of Xzone cool rly 2. Present time between two starts of Xzone cool relay 2.	0-900s	SNVT_time_sec
228	672	nvoXZ_SAtemp_reg	Xzone SA temp reg Present Xzone supply air temperature regulator setpoint.	5.00-40.00°C	SNVT_temp_p
229	673	nvoXZ_EAtemp_reg	Xzone EA temp reg Present Xzone extract air temperature regulator setpoint.	5.00-40.00°C	SNVT_temp_p
230	674	nvoXzone_SA_temp	Xzone SA temp Present Xzone supply air temperature.	5.00-40.00°C	SNVT_temp_p
231	675	nvoXzone_EA_temp	Xzone EA/Room temp Present Xzone extract air/room temperature.	5.00-40.00°C	SNVT_temp_p
232	676	nvoPreHeat_temp	Pre-heat air temp Present pre-heating air temperature.	5.00-40.00°C	SNVT_temp_p
233	677	nvoPreHeat_level	Pre-heat level Present level of pre-heating.	0-100.00%	SNVT_lev_percent
234	678	nvoPreHeatFrostT	Pre-heat anti frost temp Present anti frost temperature for water pre-heating coils.	0-40.00°C	SNVT_temp_p
235	679	nvoReCO2_CO2_inp	ReCO2 CO2 input Present input signal for ReCO2 CO2.	0-100.00%	SNVT_lev_percent
236	680	nvoReCO2_IntDamp	ReCO2 internal damper output Present output signal for ReCO2 internal damper.	0-100.00%	SNVT_lev_percent
237	681	nvoReCO2_ExtDamp	ReCO2 external damper output Present output signal for ReCO2 external damper.	0-100.00%	SNVT_lev_percent
238	682	nvoReCO2_OutAirF	ReCO2 outdoor airflow Present ReCO2 outdoor airflow.	0-8200l/s	SNVT_flow
239	683	nvoReCO2_OAF_reg	ReCO2 outdoor airflow reg Present ReCO2 outdoor airflow regulator setpoint.	0-8200l/s	SNVT_flow
240	684	nvoReCO2_OAFPres	ReCO2 outdoor airflow press Present ReCO2 outdoor airflow pressure.	0-2000Pa	SNVT_press_p
241	685	nvoPreHeatOpTime	Preheat operation time Present operation time for preheat, measured in minutes and present in days (24h).	0-9999	SNVT_count
242	686	nvoXZ_CoolOpTime	Xzone cool operation time Present operation time for Xzone cooling, measured in minutes and present in days (24h).	0-9999	SNVT_count
243	687	nvoXZ_ReheatOpTi	Xzone reheat operation time Present operation time for Xzone reheat, measured in minutes and present in days (24h).	0-9999	SNVT_count
244	240	nviSF_LSflow	Sup air flow lw spd	0-8200l/s	SNVT_flow
245	241	nvoSF_LSflow	Sup air flow lw spd Supply airflow setpoint for the unit when running in low speed operation.		
246	242	nviSF_HSflow	Sup air flow high spd	0-8200l/s	SNVT_flow
247	243	nvoSF_HSflow	Sup air flow high spd Supply airflow setpoint for the unit when running in high speed operation.		
248	244	nviSF_Maxflow	SA Max speed AF	0-8200l/s	SNVT_flow
249	245	nvoSF_Maxflow	SA Max speed AF Supply airflow max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.		
250	246	nviSF_Minflow	SA Min speed AF	0-8200l/s	SNVT_flow
251	247	nvoSF_Minflow	SA Min speed AF Supply airflow min. limit for the unit when the low/high speed operation setpoint is altered when running in fan regulation mode VAV demand.		

252	248	nviEF_LSflow	Ext AF lw spd	0-8200l/s	SNVT_flow
253	249	nvoEF_LSflow	Ext AF lw spd		
			Extract airflow setpoint for the unit when running in low speed operation.		
254	250	nviEF_HSflow	Ext AF high spd	0-8200l/s	SNVT_flow
255	251	nvoEF_HSflow	Ext AF high spd		
			Extract airflow setpoint for the unit when running in high speed operation.		
256	252	nviEF_Maxflow	EA Max spd airflow	0-8200l/s	SNVT_flow
257	254	nvoEF_Maxflow	EA Max spd airflow		
			Extract airflow max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.		
258	255	nviEF_Minflow	EA Min spd airflow	0-8200l/s	SNVT_flow
259	256	nvoEF_Minflow	EA Min spd airflow		
			Extract airflow min. limit for the unit when the low/high speed operation setpoint is altered when running in fan regulation mode VAV demand.		
260	257	nviSF_LSpresure	SA Low spd pres	20-500Pa	SNVT_press_p
261	258	nvoSF_LSpresure	SA Low spd pres		
			Supply air duct pressure setpoint for the unit when running in low speed operation.		
262	259	nviSF_HSpresure	SA High spd pres	20-500Pa	SNVT_press_p
263	260	nvoSF_HSpresure	SA High spd pres		
			Supply air duct pressure for the unit when running in high speed operation.		
264	261	nviSF_Maxspeed	SA Max spd output sig	0-100.00%	SNVT_lev_percent
265	262	nvoSF_Maxspeed	SA Max spd output sig		
			Max. limit for the supply air fan speed when running in pressure regulation mode.		
266	263	nviSF_Maxpress	SA Max spd pres	20-500Pa	SNVT_press_p
267	264	nvoSF_Maxpress	SA Max spd pres		
			Supply air duct pressure max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.		
268	265	nviEF_LSpresure	EA Low spd pres	20-500Pa	SNVT_press_p
269	266	nvoEF_LSpresure	EA Low spd pres stat		
			Extract air duct pressure setpoint for the unit when running in low speed operation.		
270	267	nviEF_HSpresure	EA High spd pres	20-500Pa	SNVT_press_p
271	268	nvoEF_HSpresure	EA High spd pres		
			Extract air duct pressure setpoint for the unit when running in high speed operation.		
272	269	nviEF_Maxspeed	EA Max spd output sig	0-100.00%	SNVT_lev_percent
273	270	nvoEF_Maxspeed	EA Max spd output sig		
			Max. limit for the extract air fan speed when running in pressure regulation mode.		
274	271	nviEF_Maxpress	EA Max spd pres	20-500Pa	SNVT_press_p
275	272	nvoEF_Maxpress	EA Max spd pres		
			Extract air duct pressure max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.		
276	273	nviSF_LSdemand	SA Low spd dmnd	0-100.00%	SNVT_lev_percent
277	274	nvoSF_LSdemand	SA Low spd dmnd		
			Supply air setpoint for the 0-10V input signal on terminal 30..31 for the unit when running in low speed operation.		
278	275	nviSF_HSdemand	SA High spd dmnd	0-100.00%	SNVT_lev_percent
279	276	nvoSF_HSdemand	SA High spd dmnd		
			Supply air setpoint for the 0-10V input signal on terminal 30..31 for the unit when running in high speed operation.		
280	277	nviEF_LSdemand	EA Low spd dmnd	0-100.00%	SNVT_lev_percent
281	278	nvoEF_LSdemand	EA Low spd dmnd		
			Extract air setpoint for the 0-10V input signal on terminal 30..31 for the unit when running in low speed operation.		
282	279	nviEF_HSdemand	EA High spd dmnd	0-100.00%	SNVT_lev_percent
283	280	nvoEF_HSdemand	EA High spd dmnd		
			Extract air setpoint for the 0-10V input signal on terminal 30..31 for the unit when running in high speed operation.		
284	281	nviSF_FlowZone	SA AF reg zone	1.00 - 10.00	SNVT_lev_percent
285	282	nvoSF_FlowZone	SA AF reg zone		
			Supply airflow regulation zone setting in % of the present airflow setpoint that the regulator is allowed to work within.		
286	283	nviSF_Flowfactor	SA AF C-fct	0.000 - 2.500	SNVT_multiplier
287	284	nvoSF_Flowfactor	SA AF C-fct		
			Supply airflow regulator affection setting.		
288	285	nviEF_FlowZone	EA AF reg zone	1.00 - 10.00	SNVT_lev_percent
289	286	nvoEF_FlowZone	EA AF reg zone		
			Extract airflow regulation zone setting in % of the present airflow setpoint that the regulator is allowed to work within.		
290	287	nviEF_Flowfactor	EA AF C-fct	0.000 - 2.500	SNVT_multiplier
291	288	nvoEF_Flowfactor	EA AF C-fct		
			Extract airflow regulator affection setting.		
292	289	nviSF_PressZone	SA Pres reg zone	1.00 - 10.00	SNVT_lev_percent
293	290	nvoSF_PressZone	SA Pres reg zone		
			Supply air pressure regulation zone setting in % of the present duct pressure setpoint that the regulator is allowed to work within.		

294	291	nviSF_Pressfactor	SA Pres C-fct	0.000 - 2.500	SNVT_multiplier
295	292	nvoSF_Pressfactor	SA Pres C-fct		
			Supply air pressure regulator affection setting.		
296	293	nviEF_PressZone	EA Pres reg zone	1.00 - 10.00	SNVT_lev_percent
297	294	nvoEF_PressZone	EA Pres reg zone		
			Extract air pressure regulation zone setting in % of the present duct pressure setpoint that the regulator is allowed to work within.		
298	295	nviEF_Pressfactor	EA Pres C-fct	0.000 - 2.500	SNVT_multiplier
299	296	nvoEF_Pressfactor	EA Pres C-fct		
			Extract air pressure regulator affection setting.		
300	297	nviSF_DemandPB	SA Dmnd P-band	1.00 - 100.00	SNVT_lev_percent
301	298	nvoSF_DemandPB	SA Dmnd P-band		
			Supply air demand regulator P-band setting.		
302	299	nviSF_DemFactor	SA Dmnd C-fct	0.000 - 2.500	SNVT_multiplier
303	300	nvoSF_DemFactor	SA Dmnd C-fct		
			Supply air demand regulator affection setting.		
304	301	nviEF_DemandPB	EA Dmnd P-band	1.00 - 100.00	SNVT_lev_percent
305	302	nvoEF_DemandPB	EA Dmnd P-band		
			Extract air demand regulator P-band setting.		
306	303	nviEF_DemFactor	EA Dmnd C-fct	0.000 - 2.500	SNVT_multiplier
307	304	nvoEF_DemFactor	EA Dmnd C-fct		
			Extract air demand regulator affection setting.		
308	305	nviERS1diff	SA temp diff set ERS 1	1.00 - 7.00°C	SNVT_temp_p
309	306	nvoERS1diff	SA temp diff set ERS 1		
			Supply air temperature difference setting according to the diagram for ERS 1.		
310	307	nviERS1brkpnt	ERS 1 Brkepnt	12.00 - 26.00°C	SNVT_temp_p
311	308	nvoERS1brkpnt	ERS 1 Brkepnt		
			Breakpoint setting according to the diagram for ERS 1.		
312	309	nviERS2_X1	ERS 2 Brkepnt_X1	10.00-40.00°C	SNVT_temp_p
313	310	nvoERS2_X1	ERS 2 Brkepnt_X1		
			Breakpoint X1 setting according to the diagram for ERS 2.		
314	311	nviERS2_Y1	ERS 2 Brkepnt_Y1	10.00-40.00°C	SNVT_temp_p
315	312	nvoERS2_Y1	ERS 2 Brkepnt_Y1		
			Breakpoint Y1 setting according to the diagram for ERS 2.		
316	313	nviERS2_X2	ERS 2 Brkepnt_X2	10.00-40.00°C	SNVT_temp_p
317	314	nvoERS2_X2	ERS 2 Brkepnt_X2		
			Breakpoint X2 setting according to the diagram for ERS 2.		
318	315	nviERS2_Y2	ERS 2 Brkepnt_Y2	10.00-40.00°C	SNVT_temp_p
319	316	nvoERS2_Y2	ERS 2 Brkepnt_Y2		
			Breakpoint Y2 setting according to the diagram for ERS 2.		
320	317	nviERS2_X3	ERS 2 Brkepnt_X3	10.00-40.00°C	SNVT_temp_p
321	318	nvoERS2_X3	ERS 2 Brkepnt_X3		
			Breakpoint X3 setting according to the diagram for ERS 2.		
322	319	nviERS2_Y3	ERS 2 Brkepnt_Y3	10.00-40.00°C	SNVT_temp_p
323	320	nvoERS2_Y3	ERS 2 Brkepnt_Y3		
			Breakpoint Y3 setting according to the diagram for ERS 2.		
324	2	nviSetpoint	Temp stpnt Input (absolute)	10.00-40.00°C	SNVT_temp_p
325	321	nvoSetpoint	Temp stpnt (absolute)	10.00-40.00°C	SNVT_temp_p
			Supply air temperature setting, for supply air temp regulation mode.		
326	322	nviEAtempset	EA Temp	10.00-40.00°C	SNVT_temp_p
327	323	nvoEAtempset	EA Temp		
			Extract air/room temperature setting, for Extract air/room temp regulation mode.		
328	324	nviMinSAtemp	SA Min temp	8.00-20.00°C	SNVT_temp_p
329	325	nvoMinSAtemp	SA Min temp		
			Supply air min.setpoint during EA/room regulation mode.		
330	326	nviMaxSAtemp	SA Max temp	16.00-50.00°C	SNVT_temp_p
331	327	nvoMaxSAtemp	SA Max temp		
			Supply air max.setpoint during EA/room regulation mode.		
332	328	nviSA_PB	SA Temp P-band	1.00 - 40.00	SNVT_temp_p
333	329	nvoSA_PB	SA Temp P-band		
			Supply air temperature regulator P-band setting.		
334	330	nviEA_PB	EA Temp P-band	1.00 - 40.00	SNVT_temp_p
335	613	nvoEA_PB	EA Temp P-band		
			Extract air/room temperature regulator P-band setting.		
336	614	nviSA_HXfactor	SA HX. Reg C-fct	0.000 - 2.500	SNVT_multiplier
337	331	nvoSA_HXfactor	SA HX. Reg C-fct		
			Supply air heat exchange regulator affection setting.		

338	332	nviEA_HXfactor	EA HX. Reg C-fct	0.000 - 2.500	SNVT_multiplier
339	333	nvoEA_HXfactor	EA HX. Reg C-fct		
			Extract air/room heat exchange regulator affection setting.		
340	334	nviSA_RHfactor	SA Heat Reg C-fct	0.000 - 2.500	SNVT_multiplier
341	335	nvoSA_RHfactor	SA Heat Reg C-fct		
			Supply air reheat regulator affection setting.		
342	336	nviEA_RHfactor	EA Heat Reg C-fct	0.000 - 2.500	SNVT_multiplier
343	337	nvoEA_RHfactor	EA Heat Reg C-fct		
			Extract air/room reheat regulator affection setting.		
344	338	nviSA_EXHfactor	SA X Reg heat C-fct	0.000 - 2.500	SNVT_multiplier
345	339	nvoSA_EXHfactor	SA X Reg heat C-fct		
			Supply air extra regulation sequence for reheating regulator affection setting.		
346	340	nviSA_EXCfactor	SA X Reg cool C-fct	0.000 - 2.500	SNVT_multiplier
347	341	nvoSA_EXCfactor	SA X Reg cool C-fct		
			Supply air extra regulation sequence for cooling regulator affection setting.		
348	342	nviEA_EXHfactor	EA X Reg heat C-fct	0.000 - 2.500	SNVT_multiplier
349	343	nvoEA_EXHfactor	EA X Reg heat C-fct		
			Extract air extra regulation sequence for reheating regulator affection setting.		
350	344	nviEA_EXCfactor	EA X Reg cool C-fct	0.000 - 2.500	SNVT_multiplier
351	345	nvoEA_EXCfactor	EA X Reg cool C-fct		
			Extract air extra regulation sequence for cooling regulator affection setting.		
352	346	nviSA_REDfactor	SA Dwn Reg C-fct	0.000 - 2.500	SNVT_multiplier
353	347	nvoSA_REDfactor	SA Dwn Reg C-fct		
			Supply air reheat regulator affection setting.		
354	348	nviEA_REDfactor	EA Dwn Reg C-fct	0.000 - 2.500	SNVT_multiplier
355	349	nvoEA_REDfactor	EA Dwn Reg C-fct		
			Not used in present SW version		
356	350	nviSAcoolfactor	SA Cool reg C-fct	0.000 - 2.500	SNVT_multiplier
357	351	nvoSAcoolfactor	SA Cool reg C-fct		
			Supply air cool regulator affection setting.		
358	352	nviEAcoolfactor	EA Cool reg C-fct	0.000 - 2.500	SNVT_multiplier
359	353	nvoEAcoolfactor	EA Cool reg C-fct		
			Extract air/room cool regulator affection setting.		
360	354	nviSAcoolBfactor	SA CIng bst C-fct	0.000 - 2.500	SNVT_multiplier
361	355	nvoSAcoolBfactor	SA CIng bst C-fct		
			Supply air cooling boost affection setting.		
362	356	nviEAcoolBfactor	EA CIng bst C-fct	0.000 - 2.500	SNVT_multiplier
363	357	nvoEAcoolBfactor	EA CIng bst C-fct		
			Extract air/room cooling boost regulator affection setting.		
364	358	nviHXalarmLimit	HX Pressure alarm set	30 - 100Pa	SNVT_press_p
365	359	nvoHXalarmLimit	HX Pressure alarm set		
			Heat exchange pressure alarm limit setting (alarm no.38).		
366	688	nviPCHX_def_PB	P/C.HX. defrost P-band	1.00 - 40.00	SNVT_temp_p
367	689	nvoPCHX_def_PB	P/C.HX. defrost P-band		
			Plate/coil heat exchange defrost P-band setting.		
368	690	nviPCHX_def_fact	P/C.HX. defrost C-factor	0.000 - 2.500	SNVT_multiplier
369	691	nvoPCHX_def_fact	P/C.HX. defrost C-factor		
			Plate/coil heat exchange defrost C-factor setting.		
370	360	nviCoolOff_set	Cooling off AF set in % of max	10 - 50%	SNVT_lev_percent
371	361	nvoCoolOff_set	Cooling off AF set in % of max		
			Cooling off airflow setting in % of max. airflow.		
372	362	nviSFdownregNZ	SA Down reg ntrl zone	0.00-10.00°C	SNVT_temp_p
373	363	nvoSFdownregNZ	SA Down reg ntrl zone		
			Neutral zone setting before downregulation is permitted.		
374	364	nviCoolLimit1	Cool Outd temp limit 1	0.00-25.00°C	SNVT_temp_p
375	365	nvoCoolLimit1	Cool Outd temp limit 1		
			Outdoor temperature limit setting for cooling stage 1.		
376	366	nviCoolLimit2	Cool Outd temp limit 2	0.00-25.00°C	SNVT_temp_p
377	367	nvoCoolLimit2	Cool Outd temp limit 2		
			Outdoor temperature limit setting for cooling stage 2.		
378	368	nviCoolLimit3	Cool Outd temp limit 3	0.00-25.00°C	SNVT_temp_p
379	369	nvoCoolLimit3	Cool Outd temp limit 3		
			Outdoor temperature limit setting for cooling stage 3.		

380	370	nviCoolNZ	Temp reg ntrl zone	0.50-10.00°C	SNVT_temp_p
381	371	nvoCoolNZ	Temp reg ntrl zone		
			Neutral zone setting before shift between heating and cooling.		
382	372	nviSFcoolMinflow	SA Cool min air flow	0-8200/s	SNVT_flow
383	373	nvoSFcoolMinflow	SA Cool min air flow		
			Supply air min. air flow setting for cooling.		
384	374	nviEFcoolMinflow	EA Cool min air flow	0-8200/s	SNVT_flow
385	375	nvoEFcoolMinflow	EA Cool min air flow		
			Extract air min. air flow setting for cooling.		
386	376	nviH_boostStart	Heating bst strt limit	0.00-40.00°C	SNVT_temp_p
387	377	nvoH_boostStart	Heating bst strt limit		
			Heating boost start temperature limit.		
388	378	nviC_boostStart	Cooling bst strt limit	0.00-40.00°C	SNVT_temp_p
389	379	nvoC_boostStart	Cooling bst strt limit		
			Cooling boost (comfort) start temperature limit.		
390	380	nviSA_filterlim	SA Fltr alarm limit	50-300Pa	SNVT_press_p
391	381	nvoSA_filterlim	SA Fltr alarm limit		
			Supply air filter pressure alarm limit setting.		
392	609	nviEA_filterlim	EA Fltr alarm limit	50-300Pa	SNVT_press_p
393	610	nvoEA_filterlim	EA Fltr alarm limit		
			Extract air filter pressure alarm limit setting.		
394	382	nviNH_starttemp	Int Nght ht room strt temp	5.00-25.00°C	SNVT_temp_p
395	383	nvoNH_starttemp	Int Nght ht room strt temp		
			Intermittent night heat function, extract air temperature setting for start.		
396	384	nviNH_stoptemp	Int Nght ht room stop temp	5.00-25.00°C	SNVT_temp_p
397	385	nvoNH_stoptemp	Int Nght ht room stop temp		
			Intermittent night heat function, extract air temperature setting for stop.		
398	386	nviNH_SAtempset	Int Nght ht SA temp	5.00-40.00°C	SNVT_temp_p
399	387	nvoNH_SAtempset	Int Nght ht SA temp		
			Intermittent night heat function, supply air temperature setpoint during night heat.		
400	388	nviNH_SFflowset	Int Nght ht SA airflow	0-8200/s	SNVT_flow
401	389	nvoNH_SFflowset	Int Nght ht SA airflow		
			Intermittent night heat function, supply airflow setpoint during night heat.		
402	390	nviNH_EFflowset	Int Nght ht EA airflow	0-8200/s	SNVT_flow
403	391	nvoNH_EFflowset	Int Nght ht EA airflow		
			Intermittent night heat function, extract airflow setpoint during night heat.		
404	392	nviNC_starttemp	Smr Nght cl room strt temp	17.00-27.00°C	SNVT_temp_p
405	393	nvoNC_starttemp	Smr Nght cl room strt temp		
			Summer night cool function, extract air temperature setting for start.		
406	394	nviNC_stoptemp	Smr Nght cl room stop temp	12.00-22.00°C	SNVT_temp_p
407	395	nvoNC_stoptemp	Smr Nght cl room stop temp		
			Summer night cool function, extract air temperature setting for stop.		
408	396	nviNC_OUTlimit	Smr nght cl outd temp lmt	5.00-15.00°C	SNVT_temp_p
409	397	nvoNC_OUTlimit	Smr nght cl outd temp lmt		
			Summer night cool function, outdoor temperature limit.		
410	398	nviNC_SAtempset	Smr nght cl SA temp	10.00-20.00°C	SNVT_temp_p
411	399	nvoNC_SAtempset	Smr nght cl SA temp		
			Summer night cool function, supply air temperature setpoint during summer night cool.		
412	400	nviOUTcomptempX1	Outd Temp Cmp Wntr X1	-30.00-(-10.00)°C	SNVT_temp_p
413	401	nvoOUTcomptempX1	Outd Temp Cmp Wntr X1		
			Endpoint of winter compensation.		
414	402	nviOUTcomptempX2	Outd Temp Cmp Wntr X2	-10.00-15.00°C	SNVT_temp_p
415	403	nvoOUTcomptempX2	Outd Temp Cmp Wntr X2		
			Startpoint of winter compensation.		
416	404	nviOUTcomptempY1	Outd Temp Cmp Wntr Y1	0.00-10.00°C	SNVT_temp_p
417	405	nvoOUTcomptempY1	Outd Temp Cmp Wntr Y1		
			Level of winter compensation at X1.		
418	406	nviOUTcomptempX3	Outd Temp Cmp Wntr X3	15.00-25.00°C	SNVT_temp_p
419	407	nvoOUTcomptempX3	Outd Temp Cmp Wntr X3		
			Startpoint of summer compensation.		
420	408	nviOUTcomptempX4	Outd Temp Cmp Wntr X4	25.00-40.00°C	SNVT_temp_p
421	409	nvoOUTcomptempX4	Outd Temp Cmp Wntr X4		
			Endpoint of summer compensation.		
422	410	nviOUTcomptempY2	Outd Temp Cmp Wntr Y2	-10.00-10.00°C	SNVT_temp_p
423	411	nvoOUTcomptempY2	Outd Temp Cmp Wntr Y2		
			Level of summer compensation at X4.		

424	412	nviOUTcompflowX1	Outd Temp Cmp Wntr X1	-30.00-(-10.00)°C	SNVT_temp_p
425	413	nvoOUTcompflowX1	Outd Temp Cmp Wntr X1		
			Endpoint of winter compensation.		
426	414	nviOUTcompflowX2	Outd Temp Cmp Wntr X2	-10.00-15.00°C	SNVT_temp_p
427	415	nvoOUTcompflowX2	Outd Temp Cmp Wntr X2		
			Startpoint of winter compensation.		
428	416	nviOUTcompflowY1	Outd Temp Cmp Wntr Y1	0-50.00%	SNVT_lev_percent
429	417	nvoOUTcompflowY1	Outd Temp Cmp Wntr Y1		
			Level of airflow compensation at X1.		
430	428	nviEXregMaxsign	X Reg. Seq max output	0-100.00%	SNVT_lev_percent
431	429	nvoEXregMaxsign	X Reg. Seq max output		
			Maximum output signal setting for the extra regulation sequence.		
432	430	nviEAmintemp	EA min temp alarm limit no 40	8.00-20.00°C	SNVT_temp_p
433	431	nvoEAmintemp	EA min temp alarm limit no 40		
			Setting for min extract air /room temp alarm no.40.		
434	432	nviSAtempdev	SA Deviation alarm limit	2.00-15.00°C	SNVT_temp_p
435	433	nvoSAtempdev	SA Deviation alarm limit		
			Setting for supply air temperature below present setpoint, alarm no.41.		
436	434	nviSFregmode	SA Fan reg mode	0 - 3	SNVT_count
437	435	nvoSFregmode	SA Fan reg mode		
			Setting of regulation type for the supply air fan . 0=Airflow reg, 1=Pressure reg, 2=Demand reg, 3=Slave controlled by EA fan.		
438	436	nviEFregmode	EA Fan reg mode	0 - 3	SNVT_count
439	437	nvoEFregmode	EA Fan reg mode		
			Setting of regulation type for the extract air fan . 0=Airflow reg, 1=Pressure reg, 2=Demand reg, 3=Slave controlled by SA fan.		
440	438	nviERS1step	ERS Step	1 - 4	SNVT_count
441	439	nvoERS1step	ERS Step		
			Setting of curve when temperature is above breakpoint.		
442	440	nviTempregmode	Temp reg mode 0=ERS1 1=ERS2 2=SA 3=EA/Room	0 - 3	SNVT_count
443	441	nvoTempregmode	Temp reg mode 0=ERS1 1=ERS2 2=SA 3=EA/Room		
			Setting of temperature regulation type. 0=ERS 1 reg, 1=ERS 2 reg, 2=SA reg, 3=EA/Room reg.		
444	442	nviCoolOff_time	Cooling off periode	60 - 900s	SNVT_time_sec
445	443	nvoCoolOff_time	Cooling off periode		
			Time setting for cooling off electrical heating coil.		
446	444	nviCoolstep_time	Cool step time	0 - 600s	SNVT_time_sec
447	445	nvoCoolstep_time	Cool step time		
			Time setting between cool step shift.		
448	446	nviCool_restart	Cool restart time	60 - 900s	SNVT_time_sec
449	447	nvoCool_restart	Cool restart time		
			Setting of time between two starts of the cool relays.		
450	448	nviCoolregmode	Cool regulation mode	0 - 6	SNVT_count
451	449	nvoCoolregmode	Cool regulation mode		
			Setting of cool regulation type 0=Controlled 0-10V 1=Controlled 10-0V 2=On/Off 1-step 3=On/Off 2-steps 4=On/Off 3-steps binary 5=CoolDX economi 6=CoolDX comfort		
452	450	nviHeatboostmode	Heat bst reg mode 0=Deac, 1=Act	0 - 1	SNVT_count
453	451	nvoHeatboostmode	Heat bst reg mode 0=Deac, 1=Act		
			Setting for heating boost function. 0=Deactive, 1=Active.		
454	452	nviCoolboostmode	Cooling bst reg mode	0 - 5	SNVT_count
455	453	nvoCoolboostmode	Cooling bst reg mode		
			Setting of cooling boost regulation type. 0=Inactive. 1=Comfort. 2=Economy. 3=Sequence. 4=Comfort+economy. 5=Economy+sequence.		
458	454	nviFilterCalMode	Filt clbr mode	0 - 5	SNVT_count
459	455	nvoFilterCalMode	Filt clbr mode		
			Setting for required filtercalibration. 0=Inactive. 1=SA+EA-Filter. 2=SA-Filter. 3=EA-Filter. 4=HX. 5=ReCO2.		
456	458	nviAir_ad_time_m	Air adjst min	0 - 1727	SNVT_time_min
457	459	nvoAir_ad_time_m	Air adjst min		
			Setting for amount of minutes to air adjustment function.		

460	456	nviAir_ad_time_h	Air adjst hours	0 - 28	SNVT_time_hour
461	457	nvoAir_ad_time_h	Air adjst hours		
			Setting for amount of hours to air adjustment function.		
462	460	nviNC_start_h	Smr nght cool strt hour	0-23	SNVT_time_hour
463	461	nvoNC_start_h	Smr nght cool strt hour		
			Setting for start time of summer night cooling function.		
464	462	nviNC_start_m	Smr nght cool strt min	0-59	SNVT_time_min
465	463	nvoNC_start_m	Smr nght cool strt min		
			Setting for start time of summer night cooling function.		
466	464	nviNC_stop_h	Smr nght cool stop hour	0-23	SNVT_time_hour
467	465	nvoNC_stop_h	Smr nght cool stop hour		
			Setting for stop time of summer night cooling function.		
468	466	nviNC_stop_m	Smr nght cool stop min	0-59	SNVT_time_min
469	467	nvoNC_stop_m	Smr nght cool stop min		
			Setting for stop time of summer night cooling function.		
470	468	nviEXreg_C_mode	X reg seq cool 0=Deac 1=Comfrt, 2=Econ	0 - 2	SNVT_count
471	469	nvoEXreg_C_mode	X reg seq cool 0=Deac 1=Comfrt, 2=Econ		
			Setting of extra regulation sequence cool type. 0=Deactive, 1=Comfort, 2=Economi.		
472	470	nviEXreg_H_mode	X reg seq heat 0=Deac 1=Comfrt, 2=Econ	0 - 2	SNVT_count
473	471	nvoEXreg_H_mode	X reg seq heat 0=Deac 1=Comfrt, 2=Econ		
			Setting of extra regulation sequence heat type. 0=Deactive, 1=Comfort, 2=Economi.		
474	472	nviMornboost_h	Mrn bst hour	0-23	SNVT_time_hour
475	473	nvoMornboost_h	Mrn bst hour		
			Setting of morning boost time before normal operation.		
476	474	nviMornboost_m	Mrn bst min	0-59	SNVT_time_min
477	475	nvoMornboost_m	Mrn bst min		
			Setting of morning boost time before normal operation.		
478	476	nviStartup_time	Time with fix sig	0 - 600s	SNVT_time_sec
479	477	nvoStartup_time	Time with fix sig		
			Setting of time for startup when the unit regulator is running with fixed signals.		
480	478	nviSF_startdelay	Start dly SA fan	0 - 600s	SNVT_time_sec
481	479	nvoSF_startdelay	Start dly SA fan		
			Setting of start delay time for the supply air fan.		
482	480	nviEF_startdelay	Start dly EA fan	0 - 600s	SNVT_time_sec
483	481	nvoEF_startdelay	Start dly EA fan		
			Setting of start delay time for the extract air fan after supply air fan has started.		
484	482	nviClock	Clock		SNVT_time_stamp
485	483	nvoClock	Clock		
			Setting for the unit's internal clock.		
486	484	nviTS1_status	Time channel 1 status	0-10,16-26	SNVT_count
487	485	nvoTS1_status	Time channel 1 status		
			Low speed High speed 0=Deactive 16=Deactive 1=Monday 17=Monday 2=Tuesday 18=Tuesday 3=Wednesday 19=Wednesday 4=Thursday. 20=Thursday 5=Friday 21=Friday 6=Saturday 22=Saturday 7=Sunday 23=Sunday 8=Monday..Friday 24=Monday..Friday 9=Monday..Sunday 25=Monday..Sunday 10=Saturday..Sunday 26=Saturday..Sunday		
488	486	nviTS1_start_h	Time channel 1 start hour	0-23	SNVT_time_hour
489	487	nvoTS1_start_h	Time channel 1 start hour		
490	488	nviTS1_start_m	Time channel 1 start minute	0-59	SNVT_time_min
491	489	nvoTS1_start_m	Time channel 1 start minute		
492	490	nviTS1_stop_h	Time channel 1 stop hour	0-23	SNVT_time_hour
493	491	nvoTS1_stop_h	Time channel 1 stop hour		
494	492	nviTS1_stop_m	Time channel 1 stop minute	0-59	SNVT_time_min
495	493	nvoTS1_stop_m	Time channel 1 stop minute		

496	494	nviTS2_status	Time channel 2 status	0-10,16-26	SNVT_count
497	495	nvoTS2_status	Time channel 2 status		
			Low speed High speed 0=Deactive 16=Deactive 1=Monday 17=Monday 2=Tuesday 18=Tuesday 3=Wednesday 19=Wednesday 4=Thursday. 20=Thursday 5=Friday 21=Friday 6=Saturday 22=Saturday 7=Sunday 23=Sunday 8=Monday..Friday 24=Monday..Friday 9=Monday..Sunday 25=Monday..Sunday 10=Saturday..Sunday 26=Saturday..Sunday		
498	496	nviTS2_start_h	Time channel 2 start hour	0-23	SNVT_time_hour
499	497	nvoTS2_start_h	Time channel 2 start hour		
500	498	nviTS2_start_m	Time channel 2 start minute	0-59	SNVT_time_min
501	499	nvoTS2_start_m	Time channel 2 start minute		
502	500	nviTS2_stop_h	Time channel 2 stop hour	0-23	SNVT_time_hour
503	501	nvoTS2_stop_h	Time channel 2 stop hour		
504	502	nviTS2_stop_m	Time channel 2 stop minute	0-59	SNVT_time_min
505	503	nvoTS2_stop_m	Time channel 2 stop minute		
506	504	nviTS3_status	Time channel 3 status	0-10,16-26	SNVT_count
507	505	nvoTS3_status	Time channel 3 status		
			Low speed High speed 0=Deactive 16=Deactive 1=Monday 17=Monday 2=Tuesday 18=Tuesday 3=Wednesday 19=Wednesday 4=Thursday. 20=Thursday 5=Friday 21=Friday 6=Saturday 22=Saturday 7=Sunday 23=Sunday 8=Monday..Friday 24=Monday..Friday 9=Monday..Sunday 25=Monday..Sunday 10=Saturday..Sunday 26=Saturday..Sunday		
508	506	nviTS3_start_h	Time channel 3 start hour	0-23	SNVT_time_hour
509	507	nvoTS3_start_h	Time channel 3 start hour		
510	508	nviTS3_start_m	Time channel 3 start minute	0-59	SNVT_time_min
511	509	nvoTS3_start_m	Time channel 3 start minute		
512	510	nviTS3_stop_h	Time channel 3 stop hour	0-23	SNVT_time_hour
513	511	nvoTS3_stop_h	Time channel 3 stop hour		
514	512	nviTS3_stop_m	Time channel 3 stop minute	0-59	SNVT_time_min
515	513	nvoTS3_stop_m	Time channel 3 stop minute		
516	514	nviTS4_status	Time channel 4 status	0-10,16-26	SNVT_count
517	515	nvoTS4_status	Time channel 4 status		
			Low speed High speed 0=Deactive 16=Deactive 1=Monday 17=Monday 2=Tuesday 18=Tuesday 3=Wednesday 19=Wednesday 4=Thursday. 20=Thursday 5=Friday 21=Friday 6=Saturday 22=Saturday 7=Sunday 23=Sunday 8=Monday..Friday 24=Monday..Friday 9=Monday..Sunday 25=Monday..Sunday 10=Saturday..Sunday 26=Saturday..Sunday		
518	516	nviTS4_start_h	Time channel 4 start hour	0-23	SNVT_time_hour
519	517	nvoTS4_start_h	Time channel 4 start hour		
520	518	nviTS4_start_m	Time channel 4 start minute	0-59	SNVT_time_min
521	519	nvoTS4_start_m	Time channel 4 start minute		
522	520	nviTS4_stop_h	Time channel 4 stop hour	0-23	SNVT_time_hour
523	521	nvoTS4_stop_h	Time channel 4 stop hour		
524	522	nviTS4_stop_m	Time channel 4 stop minute	0-59	SNVT_time_min
525	523	nvoTS4_stop_m	Time channel 4 stop minute		

526	524	nviTS5_status	Time channel 5 status	0-10,16-26	SNVT_count
527	525	nvoTS5_status	Time channel 5 status		
			Low speed High speed 0=Deactive 16=Deactive 1=Monday 17=Monday 2=Tuesday 18=Tuesday 3=Wednesday 19=Wednesday 4=Thursday. 20=Thursday 5=Friday 21=Friday 6=Saturday 22=Saturday 7=Sunday 23=Sunday 8=Monday..Friday 24=Monday..Friday 9=Monday..Sunday 25=Monday..Sunday 10=Saturday..Sunday 26=Saturday..Sunday		
528	526	nviTS5_start_h	Time channel 5 start hour	0-23	SNVT_time_hour
529	527	nvoTS5_start_h	Time channel 5 start hour		
530	528	nviTS5_start_m	Time channel 5 start minute	0-59	SNVT_time_min
531	529	nvoTS5_start_m	Time channel 5 start minute		
532	530	nviTS5_stop_h	Time channel 5 stop hour	0-23	SNVT_time_hour
533	531	nvoTS5_stop_h	Time channel 5 stop hour		
534	532	nviTS5_stop_m	Time channel 5 stop minute	0-59	SNVT_time_min
535	533	nvoTS5_stop_m	Time channel 5 stop minute		
536	534	nviTS6_status	Time channel 6 status	0-10,16-26	SNVT_count
537	535	nvoTS6_status	Time channel 6 status		
			Low speed High speed 0=Deactive 16=Deactive 1=Monday 17=Monday 2=Tuesday 18=Tuesday 3=Wednesday 19=Wednesday 4=Thursday. 20=Thursday 5=Friday 21=Friday 6=Saturday 22=Saturday 7=Sunday 23=Sunday 8=Monday..Friday 24=Monday..Friday 9=Monday..Sunday 25=Monday..Sunday 10=Saturday..Sunday 26=Saturday..Sunday		
538	536	nviTS6_start_h	Time channel 6 start hour	0-23	SNVT_time_hour
539	537	nvoTS6_start_h	Time channel 6 start hour		
540	538	nviTS6_start_m	Time channel 6 start minute	0-59	SNVT_time_min
541	539	nvoTS6_start_m	Time channel 6 start minute		
542	540	nviTS6_stop_h	Time channel 6 stop hour	0-23	SNVT_time_hour
543	541	nvoTS6_stop_h	Time channel 6 stop hour		
544	542	nviTS6_stop_m	Time channel 6 stop minute	0-59	SNVT_time_min
545	543	nvoTS6_stop_m	Time channel 6 stop minute		
546	544	nviTS7_status	Time channel 7 status	0-10,16-26	SNVT_count
547	545	nvoTS7_status	Time channel 7 status		
			Low speed High speed 0=Deactive 16=Deactive 1=Monday 17=Monday 2=Tuesday 18=Tuesday 3=Wednesday 19=Wednesday 4=Thursday. 20=Thursday 5=Friday 21=Friday 6=Saturday 22=Saturday 7=Sunday 23=Sunday 8=Monday..Friday 24=Monday..Friday 9=Monday..Sunday 25=Monday..Sunday 10=Saturday..Sunday 26=Saturday..Sunday		
548	546	nviTS7_start_h	Time channel 7 start hour	0-23	SNVT_time_hour
549	547	nvoTS7_start_h	Time channel 7 start hour		
550	548	nviTS7_start_m	Time channel 7 start minute	0-59	SNVT_time_min
551	549	nvoTS7_start_m	Time channel 7 start minute		
552	550	nviTS7_stop_h	Time channel 7 stop hour	0-23	SNVT_time_hour
553	551	nvoTS7_stop_h	Time channel 7 stop hour		
554	552	nviTS7_stop_m	Time channel 7 stop minute	0-59	SNVT_time_min
555	553	nvoTS7_stop_m	Time channel 7 stop minute		

556	554	nviTS8_status	Time channel 8 status	0-10,16-26	SNVT_count
557	555	nvoTS8_status	Time channel 8 status		
			Low speed High speed 0=Deactive 16=Deactive 1=Monday 17=Monday 2=Tuesday 18=Tuesday 3=Wednesday 19=Wednesday 4=Thursday. 20=Thursday 5=Friday 21=Friday 6=Saturday 22=Saturday 7=Sunday 23=Sunday 8=Monday..Friday 24=Monday..Friday 9=Monday..Sunday 25=Monday..Sunday 10=Saturday..Sunday 26=Saturday..Sunday		
558	556	nviTS8_start_h	Time channel 8 start hour	0-23	SNVT_time_hour
559	557	nvoTS8_start_h	Time channel 8 start hour		
560	558	nviTS8_start_m	Time channel 8 start minute	0-59	SNVT_time_min
561	559	nvoTS8_start_m	Time channel 8 start minute		
562	560	nviTS8_stop_h	Time channel 8 stop hour	0-23	SNVT_time_hour
563	561	nvoTS8_stop_h	Time channel 8 stop hour		
564	562	nviTS8_stop_m	Time channel 8 stop minute	0-59	SNVT_time_min
565	563	nvoTS8_stop_m	Time channel 8 stop minute		
566	564	nviExtendedLS_h	LS_h	0-23	SNVT_time_hour
567	565	nvoExtendedLS_h	LS_h		
			Extended low speed op. Hours		
568	566	nviExtendedLS_m	LS_m	0-59	SNVT_time_min
569	567	nvoExtendedLS_m	LS_m		
			Extended low speed op. Minutes		
570	568	nviExtendedHS_h	HS_h	0-23	SNVT_time_hour
571	569	nvoExtendedHS_h	HS_h		
			Extended high speed op. Hours		
572	570	nviExtendedHS_m	HS_m	0-59	SNVT_time_min
573	571	nvoExtendedHS_m	HS_m		
			Extended high speed op. Minutes		
574	621	nviComOperation	Com operation mode	0 - 4	SNVT_count
575	622	nvoComOperation	Com operation mode		
			Setting of unit operation mode from communication. 0=Auto operation. 1=Communication stop 1. 2=Communication low speed. 3=Communication high speed. 4=Communication stop 2. Summer night cool, intermittent night heat and morning boost functions works at stop 2.		
576	572	nviComOp_Auto	Auto Op	0-1	SNVT_switch
577	573	nvoComOp_Auto	Auto Op		
			Setting of unit operation mode from communication. Auto operation		
578	574	nviComOp_Stop1	Com stop 1	0-1	SNVT_switch
579	575	nvoComOp_Stop1	Com stop 1		
			Setting of unit operation mode from communication. Communication stop 1.		
580	576	nviComOp_LS	Com LS	0-1	SNVT_switch
581	577	nvoComOp_LS	Com LS		
			Setting of unit operation mode from communication. Communication low speed		
582	578	nviComOp_HS	Com HS	0-1	SNVT_switch
583	579	nvoComOp_HS	Com HS		
			Setting of unit operation mode from communication. Communication High speed.		
584	619	nviComOp_Stop2	Com stop 2	0-1	SNVT_switch
585	620	nvoComOp_Stop2	Com stop 2		
			Setting of unit operation mode from communication. Communication stop 2. Summer night cool, intermittent night heat and morning boost functions works at stop 2.		
586	580	nviServicePeriod	Dly tm months bfr service lrm	0-999	SNVT_count
587	581	nvoServicePeriod	Dly tm months bfr service lrm		
			Setting for delay time in months before service alarm.		
588	582	nviExt_alarm1del	Dly tm ext alarm 1	0 - 600s	SNVT_time_sec
589	583	nvoExt_alarm1del	Dly tm ext alarm 1		
			Setting of delay time for external alarm no 1		
590	584	nviExt_alarm2del	Dly tm ext alarm 2	0 - 600s	SNVT_time_sec
591	585	nvoExt_alarm2del	Dly tm ext alarm 2		
			Setting of delay time for external alarm no 2		
592	692	nviNH_SA_press	Int. Night heat SA press set	20-500Pa	SNVT_press_p
593	693	nvoNH_SA_press	Int. Night heat SA press set		
			Intermittent night heat function, supply pressure setpoint during night heat.		

594	694	nviNH_EA_press	Int. Night heat EA press set	20-500Pa	SNVT_press_p
595	695	nvoNH_EA_press	Int. Night heat EA press set		
			Intermittent night heat function, extract pressure setpoint during night heat.		
596	140	nviHeatRePerFunc	Heat relay periodic func	0 - 3	SNVT_count
597	141	nvoHeatRePerFunc	Heat relay periodic func		
			Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve		
598	110	nviCoolRe1PeFunc	Cool relay 1 periodic func	0 - 3	SNVT_count
599	111	nvoCoolRe1PeFunc	Cool relay 1 periodic func		
			Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve		
600	112	nviCoolRe2PeFunc	Cool relay 2 periodic func	0 - 3	SNVT_count
601	113	nvoCoolRe2PeFunc	Cool relay 2 periodic func		
			Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve		
602	696	nviSlaveContFact	Slave control C-factor	0.5 - 1.5	SNVT_multiplier
603	697	nvoSlaveContFact	Slave control C-factor		
			Slave regulator affection setting.		
604	698	nviSA_dehumid_PB	SA dehumid P-band	1.00 - 40.00	SNVT_temp_p
605	699	nvoSA_dehumid_PB	SA dehumid P-band		
			SA dehumid regulator P-band setting.		
606	700	nviSA_dehumid_CF	SA dehumid C-factor	0.000 - 2.500	SNVT_multiplier
607	701	nvoSA_dehumid_CF	SA dehumid C-factor		
			SA dehumid regulator affection setting.		
608	702	nviDewpoint_PB	Dewpoint P-band	1.00 - 40.00	SNVT_temp_p
609	703	nvoDewpoint_PB	Dewpoint P-band		
			Dewpoint regulator P-band setting.		
610	704	nviDewpoint_CF	Dewpoint C-factor	0.000 - 2.500	SNVT_multiplier
611	705	nvoDewpoint_CF	Dewpoint C-factor		
			Dewpoint regulator affection setting.		
612	706	nviChilled_w_t_s	Chilled water temp set	5.00 - 30.00	SNVT_temp_p
613	707	nvoChilled_w_t_s	Chilled water temp set		
			Chilled water temperature setting.		
614	708	nviDewpoint_NZ	Dewpoint ntrl zone	0.00 - 5.00	SNVT_temp_p
615	709	nvoDewpoint_NZ	Dewpoint ntrl zone		
			Dewpoint neutralzone setting.		
616	710	nviCompAirflow	Comp. Airflow	0-30.00%	SNVT_lev_percent
617	711	nvoCompAirflow	Comp. Airflow		
			Setting of comp. airflow.		
618	712	nviSA_humidity_s	Supply air-humidity set	10.00-90.00%	SNVT_lev_percent
619	713	nvoSA_humidity_s	Supply air-humidity set		
			Setting of supply air-humidity.		
620	714	nviWaterHeatPeOp	Water heating periodic op. time	0-60min	SNVT_time_min
621	715	nvoWaterHeatPeOp	Water heating periodic op. time		
			Setting of periodic op. time (minute).		
622	716	nviWaterHeatInt	Water heating interval	0-168h	SNVT_time_hour
623	717	nvoWaterHeatInt	Water heating interval		
			Setting of water heating interval time (hour).		
624	718	nviCoolPerOpTime	Cool periodic op. time	0-60min	SNVT_time_min
625	719	nvoCoolPerOpTime	Cool periodic op. time		
			Setting of periodic op. time (minute).		
626	720	nviCoolInterval	Cool interval	0-168h	SNVT_time_hour
627	721	nvoCoolInterval	Cool interval		
			Setting of cool interval time (hour).		
628	722	nviPCHX_bypass_a	P/C.HX. bypass adj.	-5.00 - 5.00°C	SNVT_temp_p
629	723	nvoPCHX_bypass_a	P/C.HX. bypass adj.		
			Setting of plate/coil heat exchange bypass adjustment.		
630	724	nviRoomTempExtFu	EA/Room temp ext func	0 - 2	SNVT_count
631	725	nvoRoomTempExtFu	EA/Room temp ext func		
			Setting of EA/Room temperature (external) function. 0= Inactive. 1= Input signal on terminal 40..41. 2= Communication.		
632	726	nviRoomTempComSe	EA/Room temp com.	-55.00- 125.00°C	SNVT_temp_p
633	727	nvoRoomTempComSe	EA/Room temp com.		
			Setting of EA/Room temperature via communication.		

634	728	nviOutdrTempExtF	Outdoor temp ext func	0 - 2	SNVT_count
635	729	nvoOutdrTempExtF	Outdoor temp ext func		
			Setting of outdoor temperature (external) function. 0= Inactive. 1= Input signal on terminal 38..39. 2= Communication.		
636	730	nviOutdrTempComS	Outdoor temp com.	-55.00-125.00°C	SNVT_temp_p
637	731	nvoOutdrTempComS	Outdoor temp com.		
			Setting of outdoor temperature via communication.		
638	732	nviTimeoutTmpCom	Timeout temp com.	0-9999min	SNVT_time_min
639	733	nvoTimeoutTmpCom	Timeout temp com.		
			Setting of timeout for temperature (EA/Room and Outdoor) via communication.		
640	134	nviFlowFireFunc	Flow at fire func	0 - 3	SNVT_count
641	135	nvoFlowFireFunc	Flow at fire func		
			Setting for activating the air fan operation at fire function 0= Inactive. 1= SA. 2= EA. 3= SA+EA.		
642	108	nviDownRegFunc	Air fan down reg func	0 - 2	SNVT_count
643	109	nvoDownRegFunc	Air fan down reg func		
			Setting for activating the air fan down regulation function 0= Inactive. 1= SA. 2= SA+EA.		
644	734	nviSA_SpeedAtFir	SA speed at fire.	50.00-100.00%	SNVT_lev_percent
645	735	nvoSA_SpeedAtFir	SA speed at fire.		
			Setting of supply air speed at fire.		
646	736	nviEA_SpeedAtFir	EA speed at fire.	50.00-100.00%	SNVT_lev_percent
647	737	nvoEA_SpeedAtFir	EA speed at fire.		
			Setting of extract air speed at fire.		
648	738	nviTempAlarmSet	Temp alarm set	-25.00-25.00°C	SNVT_temp_p
649	739	nvoTempAlarmSet	Temp alarm set		
			Temperature alarm function setting (no.80).		
650	740	nviTempAlarmTime	Temp alarm time	1-999s	SNVT_time_sec
651	741	nvoTempAlarmTime	Temp alarm time		
			Setting of delay time for temperature alarm (no.80).		
652	742	nviSA_min_PB	SA min P-band	1.00 - 40.00	SNVT_temp_p
653	743	nvoSA_min_PB	SA min P-band		
			Supply air min regulator P-band setting.		
654	744	nviSA_min_CF	SA min C-factor	0.000 - 2.500	SNVT_multiplier
655	745	nvoSA_min_CF	SA min C-factor		
			Supply air min regulator affection setting.		
656	746	nviSA_max_PB	SA max P-band	1.00 - 40.00	SNVT_temp_p
657	747	nvoSA_max_PB	SA max P-band		
			Supply air max regulator P-band setting.		
658	748	nviSA_max_CF	SA max C-factor	0.000 - 2.500	SNVT_multiplier
659	749	nvoSA_max_CF	SA max C-factor		
			Supply air max regulator affection setting.		
660	750	nviFilterSelect	Filter select	0 - 3	SNVT_count
661	751	nvoFilterSelect	Filter select		
			Setting for filter select function. 0=Inactive. 1=Supply air. 2=Extract air. 3=SA+EA.		
662	752	nviPreFilterSel	Prefilter select	0 - 3	SNVT_count
663	753	nvoPreFilterSel	Prefilter select		
			Setting for prefilter select function. 0=Inactive. 1=Supply air. 2=Extract air. 3=SA+EA.		
664	754	nviSA_PfilterLim	SA PreFiltr alarm limit	50-300Pa	SNVT_press_p
665	755	nvoSA_PfilterLim	SA PreFiltr alarm limit		
			Supply air prefilter pressure alarm limit setting.		
666	756	nviEA_PfilterLim	EA PreFiltr alarm limit	50-300Pa	SNVT_press_p
667	757	nvoEA_PfilterLim	EA PreFiltr alarm limit		
			Extract air prefilter pressure alarm limit setting.		
668	758	nviPfilterCalMod	PreFilt clbr mode	0 - 3	SNVT_count
669	759	nvoPfilterCalMod	PreFilt clbr mode		
			Setting for required filtercalibration. 0=Inactive. 1=SA+EA-Filter. 2=SA-Filter. 3=EA-Filter.		

670	760	nviXZ_ReheatFunc	Xzone reheat func	0 - 4	SNVT_count
671	761	nvoXZ_ReheatFunc	Xzone reheat func		
			Setting for Xzone reheat function. 0=Inactive. 1=El. coil P/P. 2=El. coil 0-10V. 3=Water coil with FP. 4=Water coil without FP.		
672	762	nviXZ_CoolFunc	Xzone cooling func	0 - 5	SNVT_count
673	763	nvoXZ_CoolFunc	Xzone cooling func		
			Setting for Xzone cooling function. 0=Inactive. 1=0-10V. 2=10-0V. 3=On/off 1. 4=On/off 2. 5=On/off 3.		
674	764	nviXZ_CoolNZ	Xzone temp reg ntrl zone	0.50-10.00°C	SNVT_temp_p
575	765	nvoXZ_CoolNZ	Xzone temp reg ntrl zone		
			Xzone neutral zone setting before shift between heating and cooling.		
676	766	nviXZ_Tempregmod	Xzone temp reg mode 0=ERS1 1=ERS2 2=SA 3=EA/Room	0 - 3	SNVT_count
677	767	nvoXZ_Tempregmod	Xzone temp reg mode 0=ERS1 1=ERS2 2=SA 3=EA/Room		
			Setting of Xzone temperature regulation type. 0=ERS 1 reg. 1=ERS 2 reg. 2=SA reg. 3=EA/Room reg.		
678	768	nviXZ_ERS1step	Xzone ERS Step	1 - 4	SNVT_count
679	769	nvoXZ_ERS1step	Xzone ERS Step		
			Setting of Xzone curve when temperature is above breakpoint.		
680	770	nviXZ_ERS1diff	Xzone SA temp diff set ERS 1	1.00 - 7.00°C	SNVT_temp_p
681	771	nvoXZ_ERS1diff	Xzone SA temp diff set ERS 1		
			Supply air temperature difference setting according to the diagram for Xzone ERS 1.		
682	772	nviXZ_ERS1brkptnt	Xzone ERS 1 Brkepnt	12.00 - 26.00°C	SNVT_temp_p
683	773	nvoXZ_ERS1brkptnt	Xzone ERS 1 Brkepnt		
			Breakpoint setting according to the diagram for Xzone ERS 1.		
684	774	nviXZ_ERS2_X1	Xzone ERS 2 Brkepnt_X1	10.00-40.00°C	SNVT_temp_p
685	775	nvoXZ_ERS2_X1	Xzone ERS 2 Brkepnt_X1		
			Breakpoint X1 setting according to the diagram for Xzone ERS 2.		
686	776	nviXZ_ERS2_Y1	Xzone ERS 2 Brkepnt_Y1	10.00-40.00°C	SNVT_temp_p
687	777	nvoXZ_ERS2_Y1	Xzone ERS 2 Brkepnt_Y1		
			Breakpoint Y1 setting according to the diagram for Xzone ERS 2.		
688	778	nviXZ_ERS2_X2	Xzone ERS 2 Brkepnt_X2	10.00-40.00°C	SNVT_temp_p
689	779	nvoXZ_ERS2_X2	Xzone ERS 2 Brkepnt_X2		
			Breakpoint X2 setting according to the diagram for Xzone ERS 2.		
690	780	nviXZ_ERS2_Y2	Xzone ERS 2 Brkepnt_Y2	10.00-40.00°C	SNVT_temp_p
691	781	nvoXZ_ERS2_Y2	Xzone ERS 2 Brkepnt_Y2		
			Breakpoint Y2 setting according to the diagram for Xzone ERS 2.		
692	782	nviXZ_ERS2_X3	Xzone ERS 2 Brkepnt_X3	10.00-40.00°C	SNVT_temp_p
693	783	nvoXZ_ERS2_X3	Xzone ERS 2 Brkepnt_X3		
			Breakpoint X3 setting according to the diagram for Xzone ERS 2.		
694	784	nviXZ_ERS2_Y3	Xzone ERS 2 Brkepnt_Y3	10.00-40.00°C	SNVT_temp_p
695	785	nvoXZ_ERS2_Y3	Xzone ERS 2 Brkepnt_Y3		
			Breakpoint Y3 setting according to the diagram for Xzone ERS 2.		
696	786	nviXZ_SAtempset	Xzone SA temp	10.00-40.00°C	SNVT_temp_p
697	787	nvoXZ_SAtempset	Xzone SA temp		SNVT_temp_p
			Xzone supply air temperature setting, for supply air temp regulation mode.		
698	788	nviXZ_EAtempset	Xzone EA Temp	10.00-30.00°C	SNVT_temp_p
699	789	nvoXZ_EAtempset	Xzone EA Temp		
			Xzone extract air/room temperature setting, for Extract air/room temp regulation mode.		
700	790	nviXZ_MinSAtemp	Xzone SA Min temp	8.00-20.00°C	SNVT_temp_p
701	791	nvoXZ_MinSAtemp	Xzone SA Min temp		
			Xzone supply air min.setpoint during EA/room regulation mode.		
702	792	nviXZ_MaxSAtemp	Xzone SA Max temp	16.00-50.00°C	SNVT_temp_p
703	793	nvoXZ_MaxSAtemp	Xzone SA Max temp		
			Xzone supply air max.setpoint during EA/room regulation mode.		

704	794	nviPreHeatFunc	Preheating func	0 - 4	SNVT_count
705	795	nvoPreHeatFunc	Preheating func		
			Setting of preheating function. 0=Inactive. 1=El. coil P/P. 2=El. coil 0-10V. 3=Water coil with FP. 4=Water coil without FP.		
706	796	nviPreHeatTmpSet	Preheating temp set	-30.00-30.00°C	SNVT_temp_p
707	797	nvoPreHeatTmpSet	Preheating temp set		
			Setting of preheating temperature setpoint.		
708	798	nviXzone_PB	Xzone P-band	1.00-40.00°C	SNVT_temp_p
709	799	nvoXzone_PB	Xzone P-band		
			Xzone regulator P-band setting.		
710	800	nviXZ_SA_Rhfact	Xzone SA Heat Reg C-fct	0.000 - 2.500	SNVT_multiplier
711	801	nvoXZ_SA_Rhfact	Xzone SA Heat Reg C-fct		
			Xzone supply air reheat regulator affection setting.		
712	802	nviXZ_SAcoolfact	Xzone SA Cool reg C-fct	0.000 - 2.500	SNVT_multiplier
713	803	nvoXZ_SAcoolfact	Xzone SA Cool reg C-fct		
			Xzone supply air cooling regulator affection setting.		
714	804	nviXZ_EA_Rhfact	Xzone EA Heat Reg C-fct	0.000 - 2.500	SNVT_multiplier
715	805	nvoXZ_EA_Rhfact	Xzone EA Heat Reg C-fct		
			Xzone extract air reheat regulator affection setting.		
716	806	nviXZ_EAcoolfact	Xzone EA Cool reg C-fct	0.000 - 2.500	SNVT_multiplier
717	807	nvoXZ_EAcoolfact	Xzone EA Cool reg C-fct		
			Xzone extract air cooling regulator affection setting.		
718	808	nviXZ_SA_min_PB	Xzone SA min P-band	1.00 - 40.00	SNVT_temp_p
719	809	nvoXZ_SA_min_PB	Xzone SA min P-band		
			Xzone supply air min regulator P-band setting.		
720	810	nviXZ_SA_min_CF	Xzone SA min C-factor	0.000 - 2.500	SNVT_multiplier
721	811	nvoXZ_SA_min_CF	Xzone SA min C-factor		
			Xzone supply air min regulator affection setting.		
722	812	nviXZ_SA_max_PB	Xzone SA max P-band	1.00 - 40.00	SNVT_temp_p
723	813	nvoXZ_SA_max_PB	Xzone SA max P-band		
			Xzone supply air max regulator P-band setting.		
724	814	nviXZ_SA_max_CF	Xzone SA max C-factor	0.000 - 2.500	SNVT_multiplier
725	815	nvoXZ_SA_max_CF	Xzone SA max C-factor		
			Xzone supply air max regulator affection setting.		
726	816	nviPreHeat_PB	Preheat P-band	1.00 - 40.00	SNVT_temp_p
727	817	nvoPreHeat_PB	Preheat P-band		
			Preheat regulator P-band setting.		
728	818	nviPreHeat_CF	Preheat C-factor	0.000 - 2.500	SNVT_multiplier
729	819	nvoPreHeat_CF	Preheat C-factor		
			Preheat regulator affection setting.		
730	820	nviReCO2_CO2_fun	ReCO2 CO2 func	0 - 2	SNVT_count
731	821	nvoReCO2_CO2_fun	ReCO2 CO2 func		
			Setting of ReCO2 CO2 function. 0=Inactive. 1=CO2. 2=CO2+flow.		
732	822	nviReCO2_CO2_set	ReCO2 CO2 set	0-100.00%	SNVT_lev_percent
733	823	nvoReCO2_CO2_set	ReCO2 CO2 set		
			Setting of ReCO2 CO2 setpoint.		
734	824	nviReCO2_CoolFun	ReCO2 cool func	0 - 2	SNVT_count
735	825	nvoReCO2_CoolFun	ReCO2 cool func		
			Setting of ReCO2 cooling function. 0=Inactive. 1=Comfort. 2=Economy.		
736	826	nviReCO2_HeatFun	ReCO2 heat func	0 - 2	SNVT_count
737	827	nvoReCO2_HeatFun	ReCO2 heat func		
			Setting of ReCO2 heating function. 0=Inactive. 1=Comfort. 2=Economy.		
738	828	nviReCO2_MinOutA	ReCO2 min outdoor air	0-8200l/s	SNVT_flow
739	829	nvoReCO2_MinOutA	ReCO2 min outdoor air		
			Setting of ReCO2 min outdoor air.		
740	830	nviReCO2_MinExhA	ReCO2 min exhaust air	0-8200l/s	SNVT_flow
741	831	nvoReCO2_MinExhA	ReCO2 min exhaust air		
			Setting of ReCO2 min exhaust air.		
742	832	nviReCO2_CO2_PB	ReCO2 CO2 P-band	1.00 - 100.00	SNVT_lev_percent
743	833	nvoReCO2_CO2_PB	ReCO2 CO2 P-band		
			ReCO2 CO2 regulator P-band setting.		

744	834	nviReCO2_CO2_CF	ReCO2 CO2 C-factor	0.000 - 5.000	SNVT_multiplier
745	835	nvoReCO2_CO2_CF	ReCO2 CO2 C-factor		
			ReCO2 CO2 regulator affection setting.		
746	836	nviReCO2_CO2F_CF	ReCO2 CO2 flow C-factor	0.000 - 5.000	SNVT_multiplier
747	837	nvoReCO2_CO2F_CF	ReCO2 CO2 flow C-factor		
			ReCO2 flow regulator affection setting.		
748	838	nviReCO2_Heat_CF	ReCO2 heating C-factor	0.000 - 5.000	SNVT_multiplier
749	839	nvoReCO2_Heat_CF	ReCO2 heating C-factor		
			ReCO2 heating regulator affection setting.		
750	840	nviReCO2_Cool_CF	ReCO2 cooling C-factor	0.000 - 5.000	SNVT_multiplier
751	841	nvoReCO2_Cool_CF	ReCO2 cooling C-factor		
			ReCO2 cooling regulator affection setting.		
752	842	nvoMajorVerLon	Major version of SW in GW	0 - 65535	SNVT_count
			Major version of software in LonWorks gateway.		
753	843	nvoMinorVerLon	Minor version of SW in GW	0 - 65535	SNVT_count
			Minor version of software in LonWorks gateway.		
754	1	nvoObjStatus	Response status variable to obj_request		SNVT_obj_status
755	2	nviObjRequest	Request variable for status of obj_status		SNVT_obj_request
756		nciAutoSendTime	Autoupdate of all netvars		SNVT_time_sec
			This variable defines the time it takes for all the parameters to be automatically updated on the network. 0 = The Autosend function is disabled.		
757		nciSndHrtBt	Send Heartbeat Time		SNVT_time_sec
			0 = The send heartbeat function is disabled.		
758		nciRcvHrtBt	Receive Heartbeat Time		SNVT_time_sec
			0 = The receive heartbeat function is disabled.		
759		nciMinOutTm	Min Time Between updates		SNVT_time_sec
			Minimum period of time between automatic network variable output transmissions. 0 = The min time between function is disabled.		
760		nciLocation	Location		SNVT_str_asc
			Free text string.		
761		nciSwitchCfg	SNVT_switch inp 0=as spec,>=1 value OR state		SCPTzoneNum
			Unsigned Long		

