FUNCTIONAL PROFILE:
Gateway Lonworks FTT-10, TBLZ-4-1-1-41, Version 1.00
COMPACT Sizes 02-03, Program Version 1.00

General

This document describes the profile at the COMPACT-LON interface.

The LON interface is a separate communication unit that solely transfers data to and from the control system in the COMPACT air handling unit.

This edition of the COMPACT-LON interface should be used for monitoring COMPACT units sizes 02-03 ver. C, across a LON bus.

It is not possible to override the physical inputs of the COMPACT 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 COMPACT control system can be adjusted, enabled or disabled. The integrated switching clock can also be set to the current time.
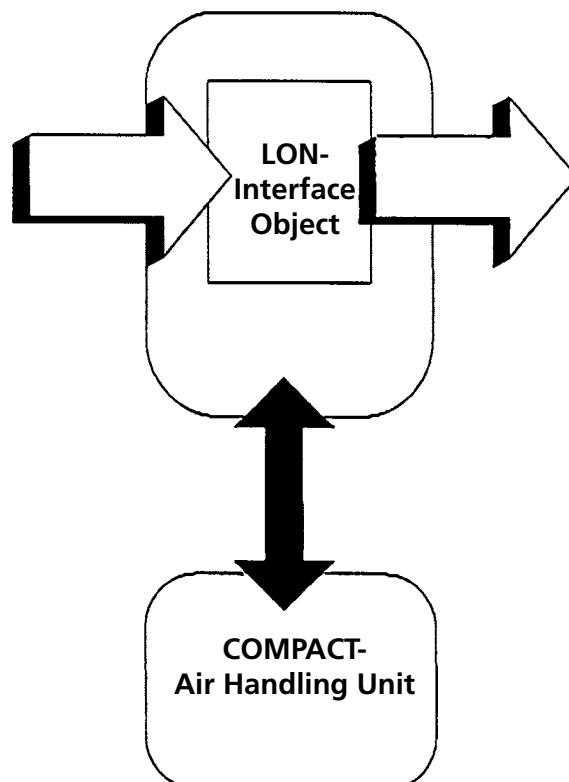
The interface is normally equipped with a Transceiver for Twisted Pair Open Topology (TP/FT-10). This is a ready-to-use module, developed and accepted by Echelon.

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 COMPACT air handling unit has been established.

When communication with the COMPACT unit has been in progress for about 10 seconds, all the input variables have been upgraded with the values from the COMPACT 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 ackowledged communication with the COMPACT 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

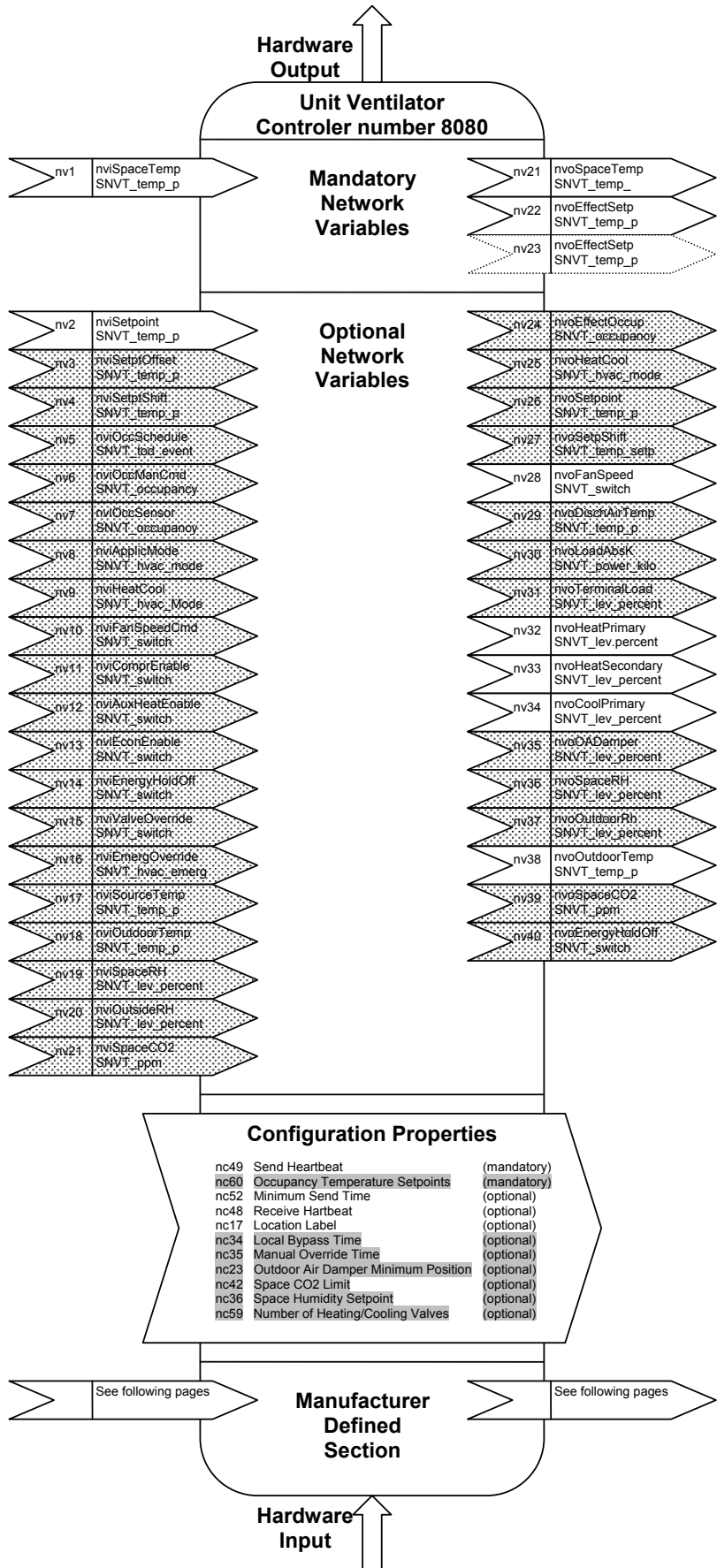This command can be used for identifying the COMPACT Air handling unit.

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 COMPACT are greyed).

Hardware Output

Unit Ventilator Controler number 8080

Mandatory Network Variables

nv1	nviSpaceTemp SNVT_temp_p		nv21	nvoSpaceTemp SNVT_temp_	
			nv22	nvoEffectSetp SNVT_temp_p	
			nv23	nvoEffectSetp SNVT_temp_p	

Optional Network Variables

nv2	nviSetpoint SNVT_temp_p	nv24	nvoEffectOccup SNVT_occupancy
nv3	nviSetptOffset SNVT_temp_p	nv25	nvoHeatCool SNVT_hvac_mode
nv4	nviSetptShift SNVT_temp_p	nv26	nvoSetpoint SNVT_temp_p
nv5	nviOccSchedule SNVT_tod_event	nv27	nvoSetpShift SNVT_temp_setp
nv6	nviOccManCmd SNVT_occupancy	nv28	nvoFanSpeed SNVT_switch
nv7	nviOccSensor SNVT_occupancy	nv29	nvoDischAirTemp SNVT_temp_p
nv8	nviApplicMode SNVT_hvac_mode	nv30	nvoLoadAbsK SNVT_power_kilo
nv9	nviHeatCool SNVT_hvac_Mode	nv31	nvoTerminalLoad SNVT_lev_percent
nv10	nviFanSpeedCmd SNVT_switch	nv32	nvoHeatPrimary SNVT_lev.percent
nv11	nviComprEnable SNVT_switch	nv33	nvoHeatSecondary SNVT_lev_percent
nv12	nviAuxHeatEnable SNVT_switch	nv34	nvoCoolPrimary SNVT_lev_percent
nv13	nviEconEnable SNVT_switch	nv35	nvoOADamper SNVT_lev_percent
nv14	nviEnergyHoldOff SNVT_switch	nv36	nvoSpaceRH SNVT_lev_percent
nv15	nviValveOverride SNVT_switch	nv37	nvoOutdoorRh SNVT_lev_percent
nv16	nviEmergOverride SNVT_hvac_emerg	nv38	nvoOutdoorTemp SNVT_temp_p
nv17	nviSourceTemp SNVT_temp_p	nv39	nvoSpaceCO2 SNVT_ppm
nv18	nviOutdoorTemp SNVT_temp_p	nv40	nvoEnergyHoldOff SNVT_switch
nv19	nviSpaceRH SNVT_lev_percent		
nv20	nviOutsideRH SNVT_lev_percent		
nv21	nviSpaceCO2 SNVT_ppm		

Configuration Properties

nc49	Send Heartbeat	(mandatory)
nc60	Occupancy Temperature Setpoints	(mandatory)
nc52	Minimum Send Time	(optional)
nc48	Receive Hartbeat	(optional)
nc17	Location Label	(optional)
nc34	Local Bypass Time	(optional)
nc35	Manual Override Time	(optional)
nc23	Outdoor Air Damper Minimum Position	(optional)
nc42	Space CO2 Limit	(optional)
nc36	Space Humidity Setpoint	(optional)
nc59	Number of Heating/Cooling Valves	(optional)

Manufacturer Defined Section

See following pages · See following pages

Hardware Input

Specifications are subject to alteration without notice.

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	106	nviHX_defr_func	Defrost Heat X Act	0-1	SNVT_switch
3	107	nvoHX_defr_func	Defrost Heat X		
			Setting for activating the defrost function for the rotary heat exchanger. 0= Inactive. 1= Active.		
4	114	nviCool_OP_func	Cool In Auto Act	0-1	SNVT_switch
5	115	nvoCool_OP_func	Cool In Auto		
			Setting for cooling between off and auto operation. 0= Inactive. 1= Auto operation.		
6	116	nviNH_func	Intrmt Nght Heat Act	0-1	SNVT_switch
7	117	nvoNH_func	Intrmt Nght Heat		
			Setting for activating the intermittent night heat function. 0= Inactive. 1= Active.		
8	118	nviNH_damp_func	Damper funct Act	0-1	SNVT_switch
9	119	nvoNH_damp_func	Damper funct		
			Setting for activating the damper output relay during int. night heat. 0= Inactive. 1= Active.		
10	120	nviSC_func	Smr Nght Cool Act	0-1	SNVT_switch
11	121	nvoSC_func	Smr Nght Cool		
			Setting for activating the summer night cool function. 0= Inactive. 1= Active.		
12	124	nviTempcomp_func	Out Temp Comp Act	0-1	SNVT_switch
13	125	nvoTempcomp_func	Out Temp Comp		
			Setting for activating the outdoor temperature compensation function. 0= Inactive. 1= Active.		
14	126	nviFlowcomp_func	Out Flow Comp Act	0-1	SNVT_switch
15	127	nvoFlowcomp_func	Out Flow Comp		
			Setting for activating the outdoor airflow compensation function. 0= Inactive. 1= Active.		
16	128	nviAutoS/W_func	Auto Summer/Winter Act	0-1	SNVT_switch
17	129	nvoAutoS/W_func	Auto Summer/Winter		
			Setting for activating the automatic switch between summer/winter time function. 0= Inactive. 1= Active.		
18	130	nviTS_func	Time Chan. Func Act	0-1	SNVT_switch
19	131	nvoTS_func	Time Chan. Func		
			Setting for switch clock function type. 0=Stop - low speed - high speed. 1=Low speed - high speed.		

20	132	nviInt_fire_func	Int Fire Al Act	0-1	SNVT_switch
21	133	nvoInt_fire_func	Int Fire Al		
			Setting for activating the internal fire alarm function. 0= Inactive. 1= Active.		
22	136	nviExt_alr1_func	Ext Al1 Cond Func Act	0-1	SNVT_switch
23	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.		
24	138	nviExt_alr2_func	Ext Al2 Cond Func Act	0-1	SNVT_switch
25	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.		
26	627	nviExt_fire_func	Ext Fire Al Act	0-1	SNVT_switch
27	628	nvoExt_fire_func	Ext Fire Al		
			Setting for external fire resetting function. 0=Manual. 1=Automatic.		
28	629	nviExt_alr1_ReFu	Ext Al1 Res Func Act	0-1	SNVT_switch
29	630	nvoExt_alr1_ReFu	Ext Al1 Res Func		
			Setting for external alarm 1 resetting function. 0=Manual. 1=Automatic.		
30	631	nviExt_alr2_ReFu	Ext Al2 Res Func Act	0-1	SNVT_switch
31	632	nvoExt_alr2_ReFu	Ext Al2 Res Func		
			Setting for external alarm 2 resetting function. 0=Manual. 1=Automatic.		
32	900	nviMornboost_D_F	Morn bst Damper Func Act	0-1	SNVT_switch
33	901	nvoMornboost_D_F	Morn bst Damper Func		
			Setting for activating the morningboost damper function. 0= Inactive. 1= Active.		
34	902	nviMornboost_E_F	Morn bst Extract Func Act	0-1	SNVT_switch
35	903	nvoMornboost_E_F	Morn bst Extract Func		
			Setting for activating the morningboost extract air fan function. 0= Inactive. 1= Active.		
36	904	nviFilter_func	Filter Func Act	0-1	SNVT_switch
37	905	nvoFilter_func	Filter Func		
			Setting for filter between calculated and pressure sensors. 0=Calculated. 1=Pressure sensors.		
38	906	nviIO_M6_Cool_Fu	I/O Module 6 Cooling Fu Act	0-1	SNVT_switch
39	907	nvoIO_M6_Cool_Fu	I/O Module 6 Cooling Fu		
			Setting for activating Iqnomiq Plus no.6 Cooling module. 0=Inactive. 1=Active.		

40	908	nviAiring_Func	Airing Func Act		0-1	SNVT_switch
41	909	nvoAiring_Func	Airing Func			
			Setting for activating the airing function. 0=Inactive. 1=Active.			
42	142	nvoHeat_relay	Pmp Heat		0-1	SNVT_switch
			Status for relay output.			
43	586	nvoCool_1_relay	Cool 1		0-1	SNVT_switch
			Status for relay output.			
44	587	nvoCool_2_relay	Cool 2		0-1	SNVT_switch
			Status for relay output.			
45	588	nvoLS_relay	Low Spd		0-1	SNVT_switch
			Status for relay output.			
46	589	nvoHS_relay	High Spd		0-1	SNVT_switch
			Status for relay output.			
47	590	nvoA_alarm_relay	Alrm A		0-1	SNVT_switch
			Status for relay output.			
48	591	nvoB_alarm_relay	Alrm B		0-1	SNVT_switch
			Status for relay output.			
49	592	nvoOP_relay	Operating		0-1	SNVT_switch
			Status for relay output.			
50	593	nvoDamper_relay	Damper		0-1	SNVT_switch
			Status for relay output.			
51	594	nvoExt_LS_inp	Ext Low Spd		0-1	SNVT_switch
			Status for digital input.			
52	595	nvoExt_HS_inp	Ext High Spd		0-1	SNVT_switch
			Status for digital input.			
53	596	nvoExt_alarm1inp	Ext Alrm A		0-1	SNVT_switch
			Status for digital input.			
54	597	nvoExt_alarm2inp	Ext Alrm B		0-1	SNVT_switch
			Status for digital input.			
55	598	nvoExt_fire_inp	Ext Fire		0-1	SNVT_switch
			Status for digital input.			
56	599	nvoExt_stop_inp	Ext Stop		0-1	SNVT_switch
			Status for digital input.			
57	600	nvoDip1	DIL 1		0-1	SNVT_switch
			Status for dip switch setting.			
58	601	nvoDip2	DIL 2		0-1	SNVT_switch
			Status for dip switch setting.			
59	602	nvoDip3	DIL 3		0-1	SNVT_switch
			Status for dip switch setting.			
60	603	nvoDip4	DIL 4		0-1	SNVT_switch
			Status for dip switch setting.			
61	604	nvoDip5	DIL 5		0-1	SNVT_switch
			Status for dip switch setting.			
62	605	nvoDip6	DIL 6		0-1	SNVT_switch
			Status for dip switch setting.			
63	638	nvoRHX_rotation	R.HX rotation monitor		0-1	SNVT_switch
			Status from the rotation detector.			

64	642	nvoPreHeat_relay	Pre-heat output	0-1	SNVT_switch
			Status for relay output.		
65	910	nvoReCirc_relay	Recirculation output	0-1	SNVT_switch
			Status for relay output.		
66	911	nvoBooster_relay	Booster output	0-1	SNVT_switch
			Status for relay output.		
67	606	nvoAlarmOut	Alarm Out		SNVT_alarm
			Location = "Compact". 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.		
68	143	nvoSF_flow	Sup AF	0-360l/s	SNVT_flow
			Present supply airflow.		
69	144	nvoSF_flowreg	Sup AF reg	0-360l/s	SNVT_flow
			Present supply airflow regulator setpoint.		
70	145	nvoEF_flow	Ext AF	0-360l/s	SNVT_flow
			Present extract airflow.		
71	146	nvoEF_flowreg	Ext AF reg	0-360l/s	SNVT_flow
			Present extract airflow regulator setpoint.		
72	147	nvoSF_pressure	Sup air duct pres	0-750Pa	SNVT_press_p
			Present supply air duct pressure.		
73	149	nvoSF_press_reg	Sup air duct pres reg	0-750Pa	SNVT_press_p
			Present supply air duct pressure regulator setpoint.		
74	148	nvoEF_pressure	Ext air duct pres	0-750Pa	SNVT_press_p
			Present extract air duct pressure.		
75	150	nvoEF_press_reg	Ext air duct pres reg	0-750Pa	SNVT_press_p
			Present extract air duct pressure regulator setpoint.		
76	152	nvoSF_boost_reg	SA VAV dmnd regulator	0-100.00%	SNVT_lev_percent
			Present supply air VAV demand regulator setpoint.		
77	154	nvoEF_boost_reg	In sig EA VAV dmnd or bst func	0-100.00%	SNVT_lev_percent
			Present supply air VAV demand regulator setpoint.		
78	28	nvoFanSpeed	Fan Speed Output	0-100.00%	SNVT_switch
			Present running level for the supply air fan.		
79	155	nvoEF_speed	Run lvl ext air fan	0-100.00%	SNVT_switch
			Present running level for the extract air fan.		
80	156	nvoSF_effect	Consm lev for sup air fan	0-500W	SNVT_power
			Present power consumption level for the supply air fan.		
81	157	nvoEF_effect	Consm lev for ext air fan	0-500W	SNVT_power
			Present power consumption level for the extract air fan.		
82	643	nvoSFP	SFP	0.0-9.9	SNVT_lev_percent
			SFP supply air + extract air.		
83	607	nvoSF_voltage	Volt sup air fan	0-500V	SNVT_volt
			Present voltage level for the supply air fan.		
84	608	nvoEF_voltage	Volt ext air fan	0-500V	SNVT_volt
			Present voltage level for the extract air fan.		

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85	160	nvoSF_current	Current sup air fan	0-2.000A	SNVT_amp
			Present current level for the supply air fan.		
86	161	nvoEF_current	Current ext air fan	0-2.000A	SNVT_amp
			Present current level for the extract air fan.		
87	844	nvoSF_fan_press	Sup air pres	0-3000Pa	SNVT_press_p
			Present airflow pressure in the supply air fan inlet.		
88	845	nvoEF_fan_press	Ext air pres	0-3000Pa	SNVT_press_p
			Present airflow pressure in the extract air fan inlet.		
89	22	nvoEffectSetpt	Effective Setpoint Output (sup air)	5.00-60.00°C	SNVT_temp_p
			Present supply air temperature regulator setpoint.		
90	162	nvoEAtempset_reg	Ext air temp regulator	5.00-40.00°C	SNVT_temp_p
			Present extract air temperature regulator setpoint.		
91	163	nvoSAtemp	Sup air temp	5.00-40.00°C	SNVT_temp_p
			Present supply air temperature.		
92	164	nvoEAtemp	Ext air/room temp in unit	5.00-40.00°C	SNVT_temp_p
			Present extract air/room temperature in the unit.		
93	165	nvoOUTtemp	Outd air temp in unit	5.00-40.00°C	SNVT_temp_p
			Present outdoor air temperature in the unit.		
94	1	nviSpaceTemp	Space Temperature Input	5.00-40.00°C	SNVT_temp_p
95	21	nvoSpaceTemp	Space Temperature Input	5.00-40.00°C	SNVT_temp_p
			Present room temperature external from the unit. nviSpaceTemp Not used in present SW version. Se also nviRoomTempComSe NV index 555.		
96	38	nvoOutdoorTemp	Outdoor Air Temperature Output	5.00-40.00°C	SNVT_temp_p
			Present outdoor air temperature external from the unit.		
97	166	nvoFrosttemp	Anti frost temp	0-40.00°C	SNVT_temp_p
			Present anti frost temperature for water reheating coils.		
98	32	nvoHeatPrimary	Prim Heat Output	0-100.00%	SNVT_lev_percent
			Present running level of heat exchange.		
99	33	nvoHeatSecondary	Sec Heat Output	0-100.00%	SNVT_lev_percent
			Present level of reheat.		
100	167	nvoSFdownreg	Lev sup air dwn reg	0-100.00%	SNVT_lev_percent
			Present level of supply airflow down regulation.		
101	34	nvoCoolPrimary	Primary Cool Output	0-100.00%	SNVT_lev_percent
			Present level of cooling.		
102	169	nvoHeatboost	Lev heat boost	0-100.00%	SNVT_lev_percent
			Present level of heating boost.		
103	170	nvoCoolboost	Lev cool boost	0-100.00%	SNVT_lev_percent
			Present level of cooling boost.		
104	171	nvoHX_pressure	Press drop rot heat exchr	0-1000Pa	SNVT_press_p
			Present pressure drop for the rotary heat exchanger.		
105	172	nvoHX_pressalr	Press drop alarm lmt rot heat exchr	0-1000Pa	SNVT_press_p
			Present pressure drop alarm limit for the rotary heat exchanger.		
106	848	nvoHX_temp_cont	HX temp inside control	0.00-100.00°C	SNVT_temp_p
			Present temperature inside the control unit for the rotary heat exchanger.		
107	173	nvoEffectred	Lev elctr rhtrs	0-100.00%	SNVT_lev_percent
			Present level of max output signal for electrical reheaters, active during low supply airflow.		

108	849	nvoFrostSetOp	Anti frost temp set operation	0.00-40.00°C	SNVT_temp_p
			Present anti frost temperature setpoint for water reheating coils during unit operation.		
109	850	nvoFrostSetStop	Anti frost temp set stop	0.00-40.00°C	SNVT_temp_p
			Present anti frost temperature setpoint for water reheating coils when the unit is in stop.		
110	851	nvoFrostAlLimit	Anti frost temp alarm limit	5.00-30.00°C	SNVT_temp_p
			Setting of antifrost temperature alarm limit.		
111	174	nvoSA_filterLev	Sup air flt prs drop	0-3000Pa	SNVT_press_p
			Present supply air filter pressure drop.		
112	175	nvoSA_filteralr	Sup air flt prs drop alrm lev	0-1000Pa	SNVT_press_p
			Present supply air filter pressure alarm limit.		
113	852	nvoSA_filterLevN	Sup air flt prs drop new	0-1000Pa	SNVT_press_p
			Supply air filter pressure saved from calibration.		
114	176	nvoEA_filterLev	Ext air flt prs drop	0-3000Pa	SNVT_press_p
			Present extract air filter pressure drop.		
115	177	nvoEA_filteralr	Ext air flt prs drop alrm lev	0-1000Pa	SNVT_press_p
			Present extract air filter pressure alarm limit.		
116	853	nvoEA_filterLevN	Ext air flt prs drop new	0-1000Pa	SNVT_press_p
			Extract air filter pressure saved from calibration.		
117	179	nvoBattype	Reheat coil type	0-20	SNVT_count
			Present connected reheat coil type.		
118	180	nvoCoolstep_rem	Time btwn cool step shift	0-600s	SNVT_time_sec
			Present time between cool step shift.		
119	181	nvoCool1_res_rem	Time btwn strts of cool rly 1.	0-1800s	SNVT_time_sec
			Present time between two starts of cool relay 1.		
120	182	nvoCool2_res_rem	Time btwn strts of cool rly 2.	0-1800s	SNVT_time_sec
			Present time between two starts of cool relay 2.		
121	183	nvoCPUver	Prog ver main ctrl unit	0-9999	SNVT_count
			Present programversion for the main control unit.		
122	184	nvoWeekday	Day of week	0-6	SNVT_date_day
			Present weekday for the unit's internal clock.		
123	185	nvoExtendLS_hour	Extnd low spd hour	0-23	SNVT_time_hour
			Present time for extended low speed operation.		
124	186	nvoExtendLS_min	Extnd low spd min	0-59	SNVT_time_min
			Present time for extended low speed operation.		
125	185	nvoExtendHS_hour	Extnd high spd hour	0-23	SNVT_time_hour
			Present time for extended high speed operation.		
126	186	nvoExtendHS_min	Extnd high spd min	0-59	SNVT_time_min
			Present time for extended high speed operation.		
127	187	nvoSF_Optime	Sup air fan op time days	0-9999	SNVT_count
			Present operation time for the supply air fan, measured in minutes and present in days (24h).		
128	188	nvoEF_Optime	Ext air fan op time days	0-9999	SNVT_count
			Present operation time for the extract air fan, measured in minutes and present in days (24h).		
129	189	nvoCool_Optime	Cooling op time days	0-9999	SNVT_count
			Present operation time for cooling, measured in minutes and present in days (24h).		

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130	190	nvoHX_Optime	HeatX op time days	0-9999	SNVT_count
			Present operation time for heat exchange, measured in minutes and present in days (24h).		
131	191	nvoHeat_Optime	Reheat op time days	0-9999	SNVT_count
			Present operation time for reheat, measured in minutes and present in days (24h).		
132	192	nvoActive_alarm	Alrm	0-200	SNVT_count
			Present tripped alarm number with highest priority.		
133	193	nvoDelay_alarm1	Delayed Alrm1	0-200	SNVT_count
			Present active alarm in delay.		
134	194	nvoDelay_alarm2	Delayed Alrm2	0-200	SNVT_count
			Present active alarm in delay.		
135	195	nvoDelay_alarm3	Delayed Alrm3	0-200	SNVT_count
			Present active alarm in delay.		
136	196	nvoSF_size	Sup air fan size	02 - 03	SNVT_count
			Present supply air fan size.		
137	197	nvoEF_size	Ext air fan size	02 - 03	SNVT_count
			Present extract air fan size.		
138	198	nvoUnitOpM2_00	Stop	0-1	SNVT_switch
			Operation mode 2=Stop.		
139	199	nvoUnitOpM2_01	Ext Stop	0-1	SNVT_switch
			Operation mode 2=Ext. Stop		
140	200	nvoUnitOpM2_02	Com Stop 1	0-1	SNVT_switch
			Operation mode 2=Com. Stop 1.		
141	201	nvoUnitOpM2_03	High spd	0-1	SNVT_switch
			Operation mode 2=High speed.		
142	202	nvoUnitOpM2_04	Smrnight Cool	0-1	SNVT_switch
			Operation mode 2=Summer night cooling.		
143	203	nvoUnitOpM2_05	Int nightheat	0-1	SNVT_switch
			Operation mode 2=Int. night heat.		
144	204	nvoUnitOpM2_06	Lw spd	0-1	SNVT_switch
			Operation mode 2=Low speed		
145	205	nvoUnitOpM2_07	Ext high spd	0-1	SNVT_switch
			Operation mode 2=Ext. high speed.		
146	206	nvoUnitOpM2_08	Com high spd	0-1	SNVT_switch
			Operation mode 2=Com. high speed.		
147	207	nvoUnitOpM2_09	Switch clk stop	0-1	SNVT_switch
			Operation mode 2=Switch clock=stop.		
148	208	nvoUnitOpM2_10	High spd	0-1	SNVT_switch
			1Operation mode 2=High speed.		
149	209	nvoUnitOpM2_11	Lw spd	0-1	SNVT_switch
			Operation mode 2=Low speed.		
150	210	nvoUnitOpM2_12	High spd	0-1	SNVT_switch
			Operation mode 2=High speed.		
151	211	nvoUnitOpM2_13	Ext Lw spd	0-1	SNVT_switch
			Operation mode 2=Ext. low speed.		
152	212	nvoUnitOpM2_14	Com Lw spd	0-1	SNVT_switch
			Operation mode 2=Com. low speed.		
153	213	nvoUnitOpM2_15	Lw spd	0-1	SNVT_switch
			Operation mode 2=Low speed.		

154	214	nvoUnitOpM2_16	Switch clk stop		0-1	SNVT_switch
			Operation mode 2=Switch clock=stop.			
155	215	nvoUnitOpM2_17	Lw spd stop		0-1	SNVT_switch
			Operation mode 2=Low speed=stop.			
156	615	nvoUnitOpM2_18	Com Stop 2		0-1	SNVT_switch
			Operation mode 2=Com. Stop 2.			
157	912	nvoUnitOpM2_255			0-1	SNVT_switch
			Operation mode 2=Not used.			
158	216	nvoUnitOpM3_00			0-1	SNVT_switch
			Operation mode 3=Not used.			
159	217	nvoUnitOpM3_01	Coold air recovery		0-1	SNVT_switch
			Operation mode 3=Coold air recovery.			
160	218	nvoUnitOpM3_02	Cooling boost		0-1	SNVT_switch
			Operation mode 3=Cooling boost.			
161	219	nvoUnitOpM3_03	SA down reg		0-1	SNVT_switch
			Operation mode 3=SA down regulation.			
162	220	nvoUnitOpM3_04	HX defr		0-1	SNVT_switch
			Operation mode 3=HX defrosting.			
163	221	nvoUnitOpM3_05	Anti frost func. Act		0-1	SNVT_switch
			Operation mode 3=Anti frost func. active.			
164	222	nvoUnitOpM3_06	Effect reduct		0-1	SNVT_switch
			Operation mode 3=Effect reduction.			
165	223	nvoUnitOpM3_07	Startup		0-1	SNVT_switch
			Operation mode 3=Startup.			
166	224	nvoUnitOpM3_08	Zero cal		0-1	SNVT_switch
			Operation mode 3=Zero calibration.			
167	225	nvoUnitOpM3_09	Ext Lw spd		0-1	SNVT_switch
			Operation mode 3=Extended low speed.			
168	226	nvoUnitOpM3_10	Ext High spd		0-1	SNVT_switch
			Operation mode 3=Extended high speed.			
169	227	nvoUnitOpM3_11	Air adjust		0-1	SNVT_switch
			Operation mode 3=Air adjustment.			
170	228	nvoUnitOpM3_12	Cooling off		0-1	SNVT_switch
			Operation mode 3=Cooling off.			
171	229	nvoUnitOpM3_13	Purging R.HX		0-1	SNVT_switch
			Operation mode 3=Purging R.HX.			
172	230	nvoUnitOpM3_14	Ext R.HX. Op		0-1	SNVT_switch
			Operation mode 3=Extended R.HX. op.			
173	231	nvoUnitOpM3_15	Filter cal		0-1	SNVT_switch
			Operation mode 3=Filter calibration.			
174	232	nvoUnitOpM3_16	RH.HX cal		0-1	SNVT_switch
			Operation mode 3=R.HX. calibration			
175	233	nvoUnitOpM3_17	Morning bst		0-1	SNVT_switch
			Operation mode 3=Morning boost.			
176	234	nvoUnitOpM3_18	Heat bst		0-1	SNVT_switch
			Operation mode 3=Heating boost.			
177	235	nvoUnitOpM3_19	Alrm		0-1	SNVT_switch
			Operation mode 3=Alarm.			
178	616	nvoUnitOpM3_20	Cooling press red		0-1	SNVT_switch
			Operation mode 3=Cooling pressure reduction.			

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179	617	nvoUnitOpM3_21	Startup EA fan	0-1	SNVT_switch
			Operation mode 3=Startup extract air fan.		
180	618	nvoUnitOpM3_22	Fan heat retention	0-1	SNVT_switch
			Operation mode 3=Fan heat retention.		
181	913	nvoUnitOpM3_23	Airing	0-1	SNVT_switch
			Operation mode 3=Airing.		
182	914	nvoUnitOpM3_24	Heating	0-1	SNVT_switch
			Operation mode 3=Heating.		
183	236	nvoUnitOpM1_Stop	Stop	0-1	SNVT_switch
			Present manual operation set on the unit's handterminal, Stop		
184	237	nvoUnitOpM1_Auto	Auto	0-1	SNVT_switch
			Present manual operation set on the unit's handterminal, Auto operation		
185	238	nvoUnitOpM1_LS	LS	0-1	SNVT_switch
			Present manual operation set on the unit's handterminal, Manual low speed		
186	239	nvoUnitOpM1_HS	HS	0-1	SNVT_switch
			Present manual operation set on the unit's handterminal, Manual high speed.		
187	644	nvoHeatPrimaryRe	Heat exchange reg	0-100.00%	SNVT_lev_percent
			Present level of heat exchange regulator RX/CX/PX.		
188	659	nvoRHX_eff	R.HX. Efficiency	0-100.00%	SNVT_lev_percent
			Calculated level of rotary heat exchanger efficiency.		
189	662	nvoSA_PfilterLev	Sup air preflt prs drop	0-3000Pa	SNVT_press_p
			Present supply air prefilter pressure drop.		
190	663	nvoSA_Pfilteralr	Sup air preflt prs drop alrm lev	0-1000Pa	SNVT_press_p
			Present supply air prefilter pressure alarm limit.		
191	854	nvoSA_PfiltLevN	Sup air preflt prs drop new	0-1000Pa	SNVT_press_p
			Supply air prefilter pressure saved from calibration.		
192	664	nvoEA_PfilterLev	Ext air preflt prs drop	0-3000Pa	SNVT_press_p
			Present extract air prefilter pressure drop.		
193	665	nvoEA_Pfilteralr	Ext air preflt prs drop alrm lev	0-1000Pa	SNVT_press_p
			Present extract air prefilter pressure alarm limit.		
194	855	nvoEA_PfiltLevN	Ext air preflt prs drop new	0-1000Pa	SNVT_press_p
			Extract air prefilter pressure saved from calibration.		
195	676	nvoPreHeat_temp	Pre-heat air temp	5.00-40.00°C	SNVT_temp_p
			Present pre-heating air temperature.		
196	677	nvoPreHeat_level	Pre-heat level	0-100.00%	SNVT_lev_percent
			Present level of pre-heating.		
197	678	nvoPreHeatFrostT	Pre-heat anti frost temp	0-40.00°C	SNVT_temp_p
			Present anti frost temperature for water pre-heating coils.		
198	685	nvoPreHeatOpTime	Preheat operation time	0-30000	SNVT_count
			Present operation time for preheat, measured in minutes and present in days (24h).		
199	915	nvoDemand_VOC_L	Demand VOC Level	0-100.00%	SNVT_lev_percent
			Present level of demand VOC input.		

200	916	nvoDemand_Vin_L	Demand Vin Level	0-100.00%	SNVT_lev_percent
			Present level of demand 0-10VDC input.		
201	917	nvoSA_Filter_Cal	Sup air flt calculated level	0-100.00%	SNVT_lev_percent
			Present level of calculated supply air filter.		
202	918	nvoEA_Filter_Cal	Ext air flt calculated level	0-100.00%	SNVT_lev_percent
			Present level of calculated extract air filter.		
203	240	nviSF_LSflow	Sup air flow lw spd	0-360l/s	SNVT_flow
204	241	nvoSF_LSflow	Sup air flow lw spd		
			Supply airflow setpoint for the unit when running in low speed operation.		
205	242	nviSF_HSflow	Sup air flow high spd	0-360l/s	SNVT_flow
206	243	nvoSF_HSflow	Sup air flow high spd		
			Supply airflow setpoint for the unit when running in high speed operation.		
207	244	nviSF_Maxflow	SA Max speed AF	0-360l/s	SNVT_flow
208	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.		
209	246	nviSF_Minflow	SA Min speed AF	0-360l/s	SNVT_flow
210	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.		
211	248	nviEF_LSflow	Ext AF lw spd	0-360l/s	SNVT_flow
212	249	nvoEF_LSflow	Ext AF lw spd		
			Extract airflow setpoint for the unit when running in low speed operation.		
213	250	nviEF_HSflow	Ext AF high spd	0-360l/s	SNVT_flow
214	251	nvoEF_HSflow	Ext AF high spd		
			Extract airflow setpoint for the unit when running in high speed operation.		
215	252	nviEF_Maxflow	EA Max spd airflow	0-360l/s	SNVT_flow
216	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.		
217	255	nviEF_Minflow	EA Min spd airflow	0-360l/s	SNVT_flow
218	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.		
219	257	nviSF_LSpressure	SA Low spd pres	0-750Pa	SNVT_press_p
220	258	nvoSF_LSpressure	SA Low spd pres		
			Supply air duct pressure setpoint for the unit when running in low speed operation.		
221	259	nviSF_HSpressure	SA High spd pres	0-750Pa	SNVT_press_p
222	260	nvoSF_HSpressure	SA High spd pres		
			Supply air duct pressure for the unit when running in high speed operation.		
223	261	nviSF_Maxspeed	SA Max spd output sig	0-100.00%	SNVT_lev_percent
224	262	nvoSF_Maxspeed	SA Max spd output sig		
			Max. limit for the supply air fan speed when running in pressure regulation mode.		

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225	263	nviSF_Maxpress	SA Max spd pres	0-750Pa	SNVT_press_p
226	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.		
227	265	nviEF_LSpressure	EA Low spd pres	0-750Pa	SNVT_press_p
228	266	nvoEF_LSpressure	EA Low spd pres stat		
			Extract air duct pressure setpoint for the unit when running in low speed operation.		
229	267	nviEF_HSpressure	EA High spd pres	0-750Pa	SNVT_press_p
230	268	nvoEF_HSpressure	EA High spd pres		
			Extract air duct pressure setpoint for the unit when running in high speed operation.		
231	269	nviEF_Maxspeed	EA Max spd output sig	0-100.00%	SNVT_lev_percent
232	270	nvoEF_Maxspeed	EA Max spd output sig		
			Max. limit for the extract air fan speed when running in pressure regulation mode.		
233	271	nviEF_Maxpress	EA Max spd pres	0-750Pa	SNVT_press_p
234	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.		
235	273	nviSF_LSdemand	SA Low spd dmnd	0-100.00%	SNVT_lev_percent
236	274	nvoSF_LSdemand	SA Low spd dmnd		
			Supply air setpoint for the 0-10V input signal on terminal 35..37 for the unit when running in low speed operation.		
237	275	nviSF_HSdemand	SA High spd dmnd	0-100.00%	SNVT_lev_percent
238	276	nvoSF_HSdemand	SA High spd dmnd		
			Supply air setpoint for the 0-10V input signal on terminal 35..37 for the unit when running in high speed operation.		
239	277	nviEF_LSdemand	EA Low spd dmnd	0-100.00%	SNVT_lev_percent
240	278	nvoEF_LSdemand	EA Low spd dmnd		
			Extract air setpoint for the 0-10V input signal on terminal 35..37 for the unit when running in low speed operation.		
241	279	nviEF_HSdemand	EA High spd dmnd	0-100.00%	SNVT_lev_percent
242	280	nvoEF_HSdemand	EA High spd dmnd		
			Extract air setpoint for the 0-10V input signal on terminal 35..37 for the unit when running in high speed operation.		
243	281	nviSF_FlowZone	SA AF reg zone	1.00 - 10.00	SNVT_lev_percent
244	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.		
245	283	nviSF_Flowfactor	SA AF C-fct	0.000 - 2.500	SNVT_multiplier
246	284	nvoSF_Flowfactor	SA AF C-fct		
			Supply airflow regulator affection setting.		
247	285	nviEF_FlowZone	EA AF reg zone	1.00 - 10.00	SNVT_lev_percent
248	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.		

249	287	nviEF_Flowfactor	EA AF C-fct	0.000 - 2.500	SNVT_multiplier
250	288	nvoEF_Flowfactor	EA AF C-fct		
			Extract airflow regulator affection setting.		
251	289	nviSF_PressZone	SA Pres reg zone	1.00 - 10.00	SNVT_lev_percent
252	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.		
253	291	nviSF_Pressfactor	SA Pres C-fct	0.000 - 2.500	SNVT_multiplier
254	292	nvoSF_Pressfactor	SA Pres C-fct		
			Supply air pressure regulator affection setting.		
255	293	nviEF_PressZone	EA Pres reg zone	1.00 - 10.00	SNVT_lev_percent
256	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.		
257	295	nviEF_Pressfactor	EA Pres C-fct	0.000 - 2.500	SNVT_multiplier
258	296	nvoEF_Pressfactor	EA Pres C-fct		
			Extract air pressure regulator affection setting.		
259	297	nviSF_DemandPB	SA Dmnd P-band	1.00 - 100.00	SNVT_lev_percent
260	298	nvoSF_DemandPB	SA Dmnd P-band		
			Supply air demand regulator P-band setting.		
261	299	nviSF_DemFactor	SA Dmnd C-fct	0.000 - 2.500	SNVT_multiplier
262	300	nvoSF_DemFactor	SA Dmnd C-fct		
			Supply air demand regulator affection setting.		
263	301	nviEF_DemandPB	EA Dmnd P-band	1.00 - 100.00	SNVT_lev_percent
264	302	nvoEF_DemandPB	EA Dmnd P-band		
			Extract air demand regulator P-band setting.		
265	303	nviEF_DemFactor	EA Dmnd C-fct	0.000 - 2.500	SNVT_multiplier
266	304	nvoEF_DemFactor	EA Dmnd C-fct		
			Extract air demand regulator affection setting.		
267	305	nviERS1diff	SA temp diff set ERS 1	1.00 - 7.00°C	SNVT_temp_p
268	306	nvoERS1diff	SA temp diff set ERS 1		
			Supply air temperature difference setting accordning to the diagram for ERS 1.		
269	307	nviERS1brkpnt	ERS 1 Brkepnt	12.00 - 26.00°C	SNVT_temp_p
270	308	nvoERS1brkpnt	ERS 1 Brkepnt		
			Breakpoint setting accordning to the diagram for ERS 1.		
271	309	nviERS2_X1	ERS 2 Brkepnt_X1	10.00-38.00°C	SNVT_temp_p
272	310	nvoERS2_X1	ERS 2 Brkepnt_X1		
			Breakpoint X1 setting according to the diagram for ERS 2.		
273	311	nviERS2_Y1	ERS 2 Brkepnt_Y1	10.00-40.00°C	SNVT_temp_p
274	312	nvoERS2_Y1	ERS 2 Brkepnt_Y1		
			Breakpoint Y1 setting accordning to the diagram for ERS 2.		
275	313	nviERS2_X2	ERS 2 Brkepnt_X2	11.00-39.00°C	SNVT_temp_p
276	314	nvoERS2_X2	ERS 2 Brkepnt_X2		
			Breakpoint X2 setting accordning to the diagram for ERS 2.		

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277	315	nviERS2_Y2	ERS 2 Brkepnt_Y2	10.00-40.00°C	SNVT_temp_p
278	316	nvoERS2_Y2	ERS 2 Brkepnt_Y2		
			Breakpoint Y2 setting accordning to the diagram for ERS 2.		
279	317	nviERS2_X3	ERS 2 Brkepnt_X3	12.00-40.00°C	SNVT_temp_p
280	318	nvoERS2_X3	ERS 2 Brkepnt_X3		
			Breakpoint X3 setting accordning to the diagram for ERS 2.		
281	319	nviERS2_Y3	ERS 2 Brkepnt_Y3	10.00-40.00°C	SNVT_temp_p
282	320	nvoERS2_Y3	ERS 2 Brkepnt_Y3		
			Breakpoint Y3 setting accordning to the diagram for ERS 2.		
283	2	nviSetpoint	Temp stpnt Input (absolute)	10.00-40.00°C	SNVT_temp_p
284	321	nvoSetpoint	Temp stpnt (absolute)	10.00-40.00°C	SNVT_temp_p
			Supply air temperature setting, for supply air temp regulation mode.		
285	322	nviEAtempset	EA Temp	10.00-40.00°C	SNVT_temp_p
286	323	nvoEAtempset	EA Temp		
			Extract air/room temperature setting, for Extract air/room temp regulation mode.		
287	324	nviMinSAtemp	SA Min temp	8.00-20.00°C	SNVT_temp_p
288	325	nvoMinSAtemp	SA Min temp		
			Supply air min.setpoint during EA/room regulation mode.		
289	326	nviMaxSAtemp	SA Max temp	16.00-50.00°C	SNVT_temp_p
290	327	nvoMaxSAtemp	SA Max temp		
			Supply air max.setpoint during EA/room regulation mode.		
291	328	nviSA_PB	SA Temp P-band	1.00 - 40.00	SNVT_temp_p
292	329	nvoSA_PB	SA Temp P-band		
			Supply air temperature regulator P-band setting.		
293	330	nviEA_PB	EA Temp P-band	1.00 - 40.00	SNVT_temp_p
294	613	nvoEA_PB	EA Temp P-band		
			Extract air/room temperature regulator P-band setting.		
295	614	nviSA_HXfactor	SA HX. Reg C-fct	0.000 - 2.500	SNVT_multiplier
296	331	nvoSA_HXfactor	SA HX. Reg C-fct		
			Supply air heat exchange regulator affection setting.		
297	332	nviEA_HXfactor	EA HX. Reg C-fct	0.000 - 2.500	SNVT_multiplier
298	333	nvoEA_HXfactor	EA HX. Reg C-fct		
			Extract air/room heat exchange regulator affection setting.		
299	334	nviSA_RHfactor	SA Heat Reg C-fct	0.000 - 2.500	SNVT_multiplier
300	335	nvoSA_RHfactor	SA Heat Reg C-fct		
			Supply air reheat regulator affection setting.		
301	336	nviEA_RHfactor	EA Heat Reg C-fct	0.000 - 2.500	SNVT_multiplier
302	337	nvoEA_RHfactor	EA Heat Reg C-fct		
			Extract air/room reheat regulator affection setting.		

303	346	nviSA_REDfactor	SA Dwn Reg C-fct	0.000 - 2.500	SNVT_multiplier
304	347	nvoSA_REDfactor	SA Dwn Reg C-fct		
			Supply air reheat regulator affection setting.		
305	348	nviEA_REDfactor	EA Dwn Reg C-fct	0.000 - 2.500	SNVT_multiplier
306	349	nvoEA_REDfactor	EA Dwn Reg C-fct		
			Not used in present SW version		
307	350	nviSAcoolfactor	SA Cool reg C-fct	0.000 - 2.500	SNVT_multiplier
308	351	nvoSAcoolfactor	SA Cool reg C-fct		
			Supply air cool regulator affection setting.		
309	352	nviEAcoolfactor	EA Cool reg C-fct	0.000 - 2.500	SNVT_multiplier
310	353	nvoEAcoolfactor	EA Cool reg C-fct		
			Extract air/room cool regulator affection setting.		
311	354	nviSAcoolBfactor	SA Clng bst C-fct	0.000 - 2.500	SNVT_multiplier
312	355	nvoSAcoolBfactor	SA Clng bst C-fct		
			Supply air cooling boost affection setting.		
313	356	nviEAcoolBfactor	EA Clng bst C-fct	0.000 - 2.500	SNVT_multiplier
314	357	nvoEAcoolBfactor	EA Clng bst C-fct		
			Extract air/room cooling boost regulator affection setting.		
315	358	nviHXalarmLimit	HX Pressure alarm set	30 - 100Pa	SNVT_press_p
316	359	nvoHXalarmLimit	HX Pressure alarm set		
			Heat exchange pressure alarm limit setting (alarm no.38).		
317	360	nviCoolOff_set	Cooling off AF set in % of max	10 - 50%	SNVT_lev_percent
318	361	nvoCoolOff_set	Cooling off AF set in % of max		
			Cooling off airflow setting in % of max. airflow.		
319	362	nviSFdownregNZ	SA Down reg ntrl zone	0.00-10.00°C	SNVT_temp_p
320	363	nvoSFdownregNZ	SA Down reg ntrl zone		
			Neutral zone setting before downregulation is permitted.		
321	364	nviCoolLimit1	Cool Outd temp limit 1	0.00-25.00°C	SNVT_temp_p
322	365	nvoCoolLimit1	Cool Outd temp limit 1		
			Outdoor temperature limit setting for cooling stage 1.		
323	366	nviCoolLimit2	Cool Outd temp limit 2	0.00-25.00°C	SNVT_temp_p
324	367	nvoCoolLimit2	Cool Outd temp limit 2		
			Outdoor temperature limit setting for cooling stage 2.		
325	368	nviCoolLimit3	Cool Outd temp limit 3	0.00-25.00°C	SNVT_temp_p
326	369	nvoCoolLimit3	Cool Outd temp limit 3		
			Outdoor temperature limit setting for cooling stage 3.		
327	370	nviCoolNZ	Temp reg ntrl zone	0.50-10.00°C	SNVT_temp_p
328	371	nvoCoolNZ	Temp reg ntrl zone		
			Neutral zone setting before shift between heating and cooling.		
329	372	nviSFcoolMinflow	SA Cool min air flow	0-360l/s	SNVT_flow
330	373	nvoSFcoolMinflow	SA Cool min air flow		
			Supply air min. air flow setting for cooling.		

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331	374	nviEFcoolMinflow	EA Cool min air flow	0-360l/s	SNVT_flow
332	375	nvoEFcoolMinflow	EA Cool min air flow		
			Extract air min. air flow setting for cooling.		
333	376	nviH_boostStart	Heating bst strt limit	2.00-10.00°C	SNVT_temp_p
334	377	nvoH_boostStart	Heating bst strt limit		
			Heating boost start temperature limit.		
335	378	nviC_boostStart	Cooling bst strt limit	2.00-10.00°C	SNVT_temp_p
336	379	nvoC_boostStart	Cooling bst strt limit		
			Cooling boost (comfort) start temperature limit.		
337	380	nviSA_filterlim	SA Fltr alarm limit	50-300Pa	SNVT_press_p
338	381	nvoSA_filterlim	SA Fltr alarm limit		
			Supply air filter pressure alarm limit setting.		
339	609	nviEA_filterlim	EA Fltr alarm limit	50-300Pa	SNVT_press_p
340	610	nvoEA_filterlim	EA Fltr alarm limit		
			Extract air filter pressure alarm limit setting.		
341	382	nviNH_starttemp	Int Nght ht room strt temp	5.00-40.00°C	SNVT_temp_p
342	383	nvoNH_starttemp	Int Nght ht room strt temp		
			Intermittent night heat function, extract air temperature setting for start.		
343	384	nviNH_stoptemp	Int Nght ht room stop temp	5.00-40.00°C	SNVT_temp_p
344	385	nvoNH_stoptemp	Int Nght ht room stop temp		
			Intermittent night heat function, extract air temperature setting for stop.		
345	386	nviNH_SAtempset	Int Nght ht SA temp	5.00-40.00°C	SNVT_temp_p
346	387	nvoNH_SAtempset	Int Nght ht SA temp		
			Intermittent night heat function, supply air temperature setpoint during night heat.		
347	388	nviNH_SFflowset	Int Nght ht SA airflow	0-360l/s	SNVT_flow
348	389	nvoNH_SFflowset	Int Nght ht SA airflow		
			Intermittent night heat function, supply airflow setpoint during night heat.		
349	390	nviNH_EFflowset	Int Nght ht EA airflow	0-360l/s	SNVT_flow
350	391	nvoNH_EFflowset	Int Nght ht EA airflow		
			Intermittent night heat function, extract airflow setpoint during night heat.		
351	392	nviNC_starttemp	Smr Nght cl room strt temp	17.00-27.00°C	SNVT_temp_p
352	393	nvoNC_starttemp	Smr Nght cl room strt temp		
			Summer night cool function, extract air temperature setting for start.		
353	394	nviNC_stoptemp	Smr Nght cl room stop temp	12.00-22.00°C	SNVT_temp_p
354	395	nvoNC_stoptemp	Smr Nght cl room stop temp		
			Summer night cool function, extract air temperature setting for stop.		
355	396	nviNC_OUTlimit	Smr nght cl outd temp lmt	5.00-15.00°C	SNVT_temp_p
356	397	nvoNC_OUTlimit	Smr nght cl outd temp lmt		
			Summer night cool function, outdoor temperature limit.		
357	398	nviNC_SAtempset	Smr nght cl SA temp	10.00-20.00°C	SNVT_temp_p
358	399	nvoNC_SAtempset	Smr nght cl SA temp		
			Summer night cool function, supply air temperature setpoint during summer night cool.		

359	400	nviOUTcomptempX1	**Outd Temp Cmp Wntr X1**	-30.00-(-10.00)°C	SNVT_temp_p
360	401	nvoOUTcomptempX1	**Outd Temp Cmp Wntr X1**		
			Endpoint of winter compensation.		
361	402	nviOUTcomptempX2	**Outd Temp Cmp Wntr X2**	-10.00-15.00°C	SNVT_temp_p
362	403	nvoOUTcomptempX2	**Outd Temp Cmp Wntr X2**		
			Startpoint of winter compensation.		
363	404	nviOUTcomptempY1	**Outd Temp Cmp Wntr Y1**	0.00-10.00°C	SNVT_temp_p
364	405	nvoOUTcomptempY1	**Outd Temp Cmp Wntr Y1**		
			Level of winter compensation at X1.		
365	406	nviOUTcomptempX3	**Outd Temp Cmp Wntr X3**	15.00-25.00°C	SNVT_temp_p
366	407	nvoOUTcomptempX3	**Outd Temp Cmp Wntr X3**		
			Startpoint of summer compensation.		
367	408	nviOUTcomptempX4	**Outd Temp Cmp Wntr X4**	25.00-40.00°C	SNVT_temp_p
368	409	nvoOUTcomptempX4	**Outd Temp Cmp Wntr X4**		
			Endpoint of summer compensation.		
369	410	nviOUTcomptempY2	**Outd Temp Cmp Wntr Y2**	-10.00-10.00°C	SNVT_temp_p
370	411	nvoOUTcomptempY2	**Outd Temp Cmp Wntr Y2**		
			Level of summer compensation at X4.		
371	412	nviOUTcompflowX1	**Outd Temp Cmp Wntr X1**	-30.00-(-10.00)°C	SNVT_temp_p
372	413	nvoOUTcompflowX1	**Outd Temp Cmp Wntr X1**		
			Endpoint of winter compensation.		
373	414	nviOUTcompflowX2	**Outd Temp Cmp Wntr X2**	-10.00-15.00°C	SNVT_temp_p
374	415	nvoOUTcompflowX2	**Outd Temp Cmp Wntr X2**		
			Startpoint of winter compensation.		
375	416	nviOUTcompflowY1	**Outd Temp Cmp Wntr Y1**	0-50.00%	SNVT_lev_percent
376	417	nvoOUTcompflowY1	**Outd Temp Cmp Wntr Y1**		
			Level of airflow compensation at X1.		
377	430	nviEAmintemp	**EA min temp alarm limit no 40**	8.00-20.00°C	SNVT_temp_p
378	431	nvoEAmintemp	**EA min temp alarm limit no 40**		
			Setting for min extract air /room temp alarm no.40.		
379	432	nviSAtempdev	**SA Deviation alarm limit**	2.00-15.00°C	SNVT_temp_p
380	433	nvoSAtempdev	**SA Deviation alarm limit**		
			Setting for supply air temperature below present set-point, alarm no.41.		
381	434	nviSFregmode	**SA Fan reg mode**	0 - 3	SNVT_count
382	435	nvoSFregmode	**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.		
383	436	nviEFregmode	**EA Fan reg mode**	0 - 3	SNVT_count
384	437	nvoEFregmode	**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.		
385	438	nviERS1step	**ERS Step**	1 - 4	SNVT_count
386	439	nvoERS1step	**ERS Step**		
			Setting of curve when temperature is above breakpoint.		
387	440	nviTempregmode	**Temp reg mode 0=ERS1 1=ERS2 2=SA 3=EA/Room**	0 - 3	SNVT_count
388	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.		

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389	442	nviCoolOff_time	Cooling off periode	60 - 1500s	SNVT_time_sec
390	443	nvoCoolOff_time	Cooling off periode		
			Time setting for cooling off electrical heating coil.		
391	444	nviCoolstep_time	Cool step time	0 - 600s	SNVT_time_sec
392	445	nvoCoolstep_time	Cool step time		
			Time setting between cool step shift.		
393	446	nviCool_restart	Cool restart time	60 - 900s	SNVT_time_sec
394	447	nvoCool_restart	Cool restart time		
			Setting of time between two starts of the cool relays.		
395	448	nviCoolregmode	Cool regulation mode	0 - 4	SNVT_count
396	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		
397	450	nviHeatboostmode	Heat bst reg mode 0=Deac, 1=Act	0 - 1	SNVT_count
398	451	nvoHeatboostmode	Heat bst reg mode 0=Deac, 1=Act		
			Setting for heating boost function. 0=Deactive, 1=Active.		
399	452	nviCoolboostmode	Cooling bst reg mode	0 - 5	SNVT_count
400	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.		
401	454	nviFilterCalMode	Filt clbr mode	0 - 4	SNVT_count
402	455	nvoFilterCalMode	Filt clbr mode		
			Setting for requiered filtercalibration. 0=Inactive. 1=SA+EA-Filter. 2=SA-Filter. 3=EA-Filter. 4=HX.		
403	458	nviAir_ad_time_m	Air adjst min	0 - 1728	SNVT_time_min
404	459	nvoAir_ad_time_m	Air adjst min		
			Setting for amount of minutes to air adjustment function.		
405	456	nviAir_ad_time_h	Air adjst hours	0 - 72	SNVT_time_hour
406	457	nvoAir_ad_time_h	Air adjst hours		
			Setting for amount of hours to air adjustment function.		
407	460	nviNC_start_h	Smr nght cool strt hour	0-23	SNVT_time_hour
408	461	nvoNC_start_h	Smr nght cool strt hour		
			Setting for start time of summer night cooling function.		
409	462	nviNC_start_m	Smr nght cool strt min	0-59	SNVT_time_min
410	463	nvoNC_start_m	Smr nght cool strt min		
			Setting for start time of summer night cooling function.		
411	464	nviNC_stop_h	Smr nght cool stop hour	0-23	SNVT_time_hour
412	465	nvoNC_stop_h	Smr nght cool stop hour		
			Setting for stop time of summer night cooling function.		

413	466	nviNC_stop_m	Smr nght cool stop min	0-59	SNVT_time_min
414	467	nvoNC_stop_m	Smr nght cool stop min		
			Setting for stop time of summer night cooling function.		
415	472	nviMornboost_h	Mrn bst hour	0-23	SNVT_time_hour
416	473	nvoMornboost_h	Mrn bst hour		
			Setting of morning boost time before normal operation.		
417	474	nviMornboost_m	Mrn bst min	0-59	SNVT_time_min
418	475	nvoMornboost_m	Mrn bst min		
			Setting of morning boost time before normal operation.		
419	476	nviStartup_time	Time with fix sig	0 - 600s	SNVT_time_sec
420	477	nvoStartup_time	Time with fix sig		
			Setting of time for startup when the unit regulator is running with fixed signals.		
421	478	nviSF_startdelay	Start dly SA fan	0 - 600s	SNVT_time_sec
422	479	nvoSF_startdelay	Start dly SA fan		
			Setting of start delay time for the supply air fan.		
423	480	nviEF_startdelay	Start dly EA fan	0 - 600s	SNVT_time_sec
424	481	nvoEF_startdelay	Start dly EA fan		
			Setting of start delay time for the extract air fan after supply air fan has started.		
425	482	nviClock	Clock		SNVT_time_stamp
426	483	nvoClock	Clock		
			Setting for the unit's internal clock.		
427	484	nviTS1_status	Time channel 1 status	0-10,16-26	SNVT_count
428	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		
429	486	nviTS1_start_h	Time channel 1 start hour	0-23	SNVT_time_hour
430	487	nvoTS1_start_h	Time channel 1 start hour		
431	488	nviTS1_start_m	Time channel 1 start minute	0-59	SNVT_time_min
432	489	nvoTS1_start_m	Time channel 1 start minute		
433	490	nviTS1_stop_h	Time channel 1 stop hour	0-23	SNVT_time_hour
434	491	nvoTS1_stop_h	Time channel 1 stop hour		
435	492	nviTS1_stop_m	Time channel 1 stop minute	0-59	SNVT_time_min
436	493	nvoTS1_stop_m	Time channel 1 stop minute		

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437	494	nviTS2_status	Time channel 2 status	0-10,16-26	SNVT_count
438	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		
439	496	nviTS2_start_h	Time channel 2 start hour	0-23	SNVT_time_hour
440	497	nvoTS2_start_h	Time channel 2 start hour		
441	498	nviTS2_start_m	Time channel 2 start minute	0-59	SNVT_time_min
442	499	nvoTS2_start_m	Time channel 2 start minute		
443	500	nviTS2_stop_h	Time channel 2 stop hour	0-23	SNVT_time_hour
444	501	nvoTS2_stop_h	Time channel 2 stop hour		
445	502	nviTS2_stop_m	Time channel 2 stop minute	0-59	SNVT_time_min
446	503	nvoTS2_stop_m	Time channel 2 stop minute		
447	504	nviTS3_status	Time channel 3 status	0-10,16-26	SNVT_count
448	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		
449	506	nviTS3_start_h	Time channel 3 start hour	0-23	SNVT_time_hour
450	507	nvoTS3_start_h	Time channel 3 start hour		
451	508	nviTS3_start_m	Time channel 3 start minute	0-59	SNVT_time_min
452	509	nvoTS3_start_m	Time channel 3 start minute		
453	510	nviTS3_stop_h	Time channel 3 stop hour	0-23	SNVT_time_hour
454	511	nvoTS3_stop_h	Time channel 3 stop hour		
455	512	nviTS3_stop_m	Time channel 3 stop minute	0-59	SNVT_time_min
456	513	nvoTS3_stop_m	Time channel 3 stop minute		

457	514	nviTS4_status	Time channel 4 status	0-10,16-26	SNVT_count
458	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		
459	516	nviTS4_start_h	Time channel 4 start hour	0-23	SNVT_time_hour
460	517	nvoTS4_start_h	Time channel 4 start hour		
461	518	nviTS4_start_m	Time channel 4 start minute	0-59	SNVT_time_min
462	519	nvoTS4_start_m	Time channel 4 start minute		
463	520	nviTS4_stop_h	Time channel 4 stop hour	0-23	SNVT_time_hour
464	521	nvoTS4_stop_h	Time channel 4 stop hour		
465	522	nviTS4_stop_m	Time channel 4 stop minute	0-59	SNVT_time_min
466	523	nvoTS4_stop_m	Time channel 4 stop minute		
467	524	nviTS5_status	Time channel 5 status	0-10,16-26	SNVT_count
468	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		
469	526	nviTS5_start_h	Time channel 5 start hour	0-23	SNVT_time_hour
470	527	nvoTS5_start_h	Time channel 5 start hour		
471	528	nviTS5_start_m	Time channel 5 start minute	0-59	SNVT_time_min
472	529	nvoTS5_start_m	Time channel 5 start minute		
473	530	nviTS5_stop_h	Time channel 5 stop hour	0-23	SNVT_time_hour
474	531	nvoTS5_stop_h	Time channel 5 stop hour		
475	532	nviTS5_stop_m	Time channel 5 stop minute	0-59	SNVT_time_min
476	533	nvoTS5_stop_m	Time channel 5 stop minute		

477	534	nviTS6_status	Time channel 6 status	0-10,16-26	SNVT_count
478	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		
479	536	nviTS6_start_h	Time channel 6 start hour	0-23	SNVT_time_hour
480	537	nvoTS6_start_h	Time channel 6 start hour		
481	538	nviTS6_start_m	Time channel 6 start minute	0-59	SNVT_time_min
482	539	nvoTS6_start_m	Time channel 6 start minute		
483	540	nviTS6_stop_h	Time channel 6 stop hour	0-23	SNVT_time_hour
484	541	nvoTS6_stop_h	Time channel 6 stop hour		
485	542	nviTS6_stop_m	Time channel 6 stop minute	0-59	SNVT_time_min
486	543	nvoTS6_stop_m	Time channel 6 stop minute		
487	544	nviTS7_status	Time channel 7 status	0-10,16-26	SNVT_count
488	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		
489	546	nviTS7_start_h	Time channel 7 start hour	0-23	SNVT_time_hour
490	547	nvoTS7_start_h	Time channel 7 start hour		
491	548	nviTS7_start_m	Time channel 7 start minute	0-59	SNVT_time_min
492	549	nvoTS7_start_m	Time channel 7 start minute		
493	550	nviTS7_stop_h	Time channel 7 stop hour	0-23	SNVT_time_hour
494	551	nvoTS7_stop_h	Time channel 7 stop hour		
495	552	nviTS7_stop_m	Time channel 7 stop minute	0-59	SNVT_time_min
496	553	nvoTS7_stop_m	Time channel 7 stop minute		

497	554	nviTS8_status	Time channel 8 status	0-10,16-26	SNVT_count
498	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		
499	556	nviTS8_start_h	Time channel 8 start hour	0-23	SNVT_time_hour
500	557	nvoTS8_start_h	Time channel 8 start hour		
501	558	nviTS8_start_m	Time channel 8 start minute	0-59	SNVT_time_min
502	559	nvoTS8_start_m	Time channel 8 start minute		
503	560	nviTS8_stop_h	Time channel 8 stop hour	0-23	SNVT_time_hour
504	561	nvoTS8_stop_h	Time channel 8 stop hour		
505	562	nviTS8_stop_m	Time channel 8 stop minute	0-59	SNVT_time_min
506	563	nvoTS8_stop_m	Time channel 8 stop minute		
507	564	nviExtendedLS_h	LS_h	0-23	SNVT_time_hour
508	565	nvoExtendedLS_h	LS_h		
			Extended low speed op. Hours		
509	566	nviExtendedLS_m	LS_m	0-59	SNVT_time_min
510	567	nvoExtendedLS_m	LS_m		
			Extended low speed op. Minutes		
511	568	nviExtendedHS_h	HS_h	0-23	SNVT_time_hour
512	569	nvoExtendedHS_h	HS_h		
			Extended high speed op. Hours		
513	570	nviExtendedHS_m	HS_m	0-59	SNVT_time_min
514	571	nvoExtendedHS_m	HS_m		
			Extended high speed op. Minutes		
515	621	nviComOperation	Com operation mode	0 - 4	SNVT_count
516	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.		

517	572	nviComOp_Auto	Auto Op	0-1	SNVT_switch
518	573	nvoComOp_Auto	Auto Op		
			Setting of unit operation mode from communication. Auto operation		
519	574	nviComOp_Stop1	Com stop 1	0-1	SNVT_switch
520	575	nvoComOp_Stop1	Com stop 1		
			Setting of unit operation mode from communication. Communication stop 1.		

521	576	nviComOp_LS	Com LS	0-1	SNVT_switch
522	577	nvoComOp_LS	Com LS		
			Setting of unit operation mode from communication. Communication low speed		
523	578	nviComOp_HS	Com HS	0-1	SNVT_switch
524	579	nvoComOp_HS	Com HS		
			Setting of unit operation mode from communication. Communication High speed.		
525	619	nviComOp_Stop2	Com stop 2	0-1	SNVT_switch
526	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.		
527	580	nviServicePeriod	Dly tm months bfr service lrm	0-99	SNVT_count
528	581	nvoServicePeriod	Dly tm months bfr service lrm		
			Setting for delay time in months before service alarm.		
529	582	nviExt_alarm1del	Dly tm ext alarm 1	0 - 600s	SNVT_time_sec
530	583	nvoExt_alarm1del	Dly tm ext alarm 1		
			Setting of delay time for external alarm no 1		
531	584	nviExt_alarm2del	Dly tm ext alarm 2	0 - 600s	SNVT_time_sec
532	585	nvoExt_alarm2del	Dly tm ext alarm 2		
			Setting of delay time for external alarm no 2		
533	692	nviNH_SA_press	Int. Night heat SA press set	20-750Pa	SNVT_press_p
534	693	nvoNH_SA_press	Int. Night heat SA press set		
			Intermittent night heat function, supply pressure setpoint during night heat.		
535	694	nviNH_EA_press	Int. Night heat EA press set	20-750Pa	SNVT_press_p
536	695	nvoNH_EA_press	Int. Night heat EA press set		
			Intermittent night heat function, extract pressure setpoint during night heat.		
537	140	nviHeatRePerFunc	Heat relay periodic func	0 - 3	SNVT_count
538	141	nvoHeatRePerFunc	Heat relay periodic func		
			Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve		
539	110	nviCoolRe1PeFunc	Cool relay 1 periodic func	0 - 3	SNVT_count
540	111	nvoCoolRe1PeFunc	Cool relay 1 periodic func		
			Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve		
541	112	nviCoolRe2PeFunc	Cool relay 2 periodic func	0 - 3	SNVT_count
542	113	nvoCoolRe2PeFunc	Cool relay 2 periodic func		
			Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve		
543	696	nviSlaveContFact	Slave control C-factor	0.5 - 1.5	SNVT_multiplier
544	697	nvoSlaveContFact	Slave control C-factor		
			Slave regulator affection setting.		

545	714	nviWaterHeatPeOp	**Water heating periodic op. time**	0-60min	SNVT_time_min
546	715	nvoWaterHeatPeOp	**Water heating periodic op. time**		
			Setting of periodic op. time (minute).		
547	716	nviWaterHeatInt	**Water heating interval**	0-168h	SNVT_time_hour
548	717	nvoWaterHeatInt	**Water heating interval**		
			Setting of water heating interval time (hour).		
549	718	nviCoolPerOpTime	**Cool periodic op. time**	0-60min	SNVT_time_min
550	719	nvoCoolPerOpTime	**Cool periodic op. time**		
			Setting of periodic op. time (minute).		
551	720	nviCoolInterval	**Cool interval**	0-168h	SNVT_time_hour
552	721	nvoCoolInterval	**Cool interval**		
			Setting of cool interval time (hour).		
553	724	nviRoomTempExtFu	**EA/Room temp ext func**	0 - 2	SNVT_count
554	725	nvoRoomTempExtFu	**EA/Room temp ext func**		
			Setting of EA/Room temperature (external) function. 0= Inactive. 1= IQnomic. 2= Communication.		
555	726	nviRoomTempComSe	**EA/Room temp com.**	-55.00-125.00°C	SNVT_temp_p
556	727	nvoRoomTempComSe	**EA/Room temp com.**		
			Setting of EA/Room temperature via communication.		
557	728	nviOutdrTempExtF	**Outdoor temp ext func**	0 - 2	SNVT_count
558	729	nvoOutdrTempExtF	**Outdoor temp ext func**		
			Setting of outdoor temperature (external) function. 0= Inactive. 1= IQnomic. 2= Communication.		
559	730	nviOutdrTempComS	**Outdoor temp com.**	-55.00-125.00°C	SNVT_temp_p
560	731	nvoOutdrTempComS	**Outdoor temp com.**		
			Setting of outdoor temperature via communication.		
561	732	nviTimeoutTmpCom	**Timeout temp com.**	0-9999min	SNVT_time_min
562	733	nvoTimeoutTmpCom	**Timeout temp com.**		
			Setting of timeout for temperature (EA/Room and Outdoor) via communication.		
563	134	nviFlowFireFunc	**Flow at fire func**	0 - 3	SNVT_count
564	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.		
565	108	nviDownRegFunc	**Air fan down reg func**	0 - 2	SNVT_count
566	109	nvoDownRegFunc	**Air fan down reg func**		
			Setting for activating the air fan down regulation function 0= Inactive. 1= SA. 2= SA+EA.		
567	734	nviSA_SpeedAtFir	**SA speed at fire.**	10.00-100.00%	SNVT_lev_percent
568	735	nvoSA_SpeedAtFir	**SA speed at fire.**		
			Setting of supply air speed at fire.		
569	736	nviEA_SpeedAtFir	**EA speed at fire.**	10.00-100.00%	SNVT_lev_percent
570	737	nvoEA_SpeedAtFir	**EA speed at fire.**		
			Setting of extract air speed at fire.		

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571	742	nviSA_min_PB	SA min P-band	1.00 - 40.00	SNVT_temp_p
572	743	nvoSA_min_PB	SA min P-band		
			Supply air min regulator P-band setting.		
573	744	nviSA_min_CF	SA min C-factor	0.000 - 2.500	SNVT_multiplier
574	745	nvoSA_min_CF	SA min C-factor		
			Supply air min regulator affection setting.		
575	746	nviSA_max_PB	SA max P-band	1.00 - 40.00	SNVT_temp_p
576	747	nvoSA_max_PB	SA max P-band		
			Supply air max regulator P-band setting.		
577	748	nviSA_max_CF	SA max C-factor	0.000 - 2.500	SNVT_multiplier
578	749	nvoSA_max_CF	SA max C-factor		
			Supply air max regulator affection setting.		
579	750	nviFilterSelect	Filter select	0 - 3	SNVT_count
580	751	nvoFilterSelect	Filter select		
			Setting for filter select function. 0=Inactive. 1=Supply air. 2=Extract air. 3=SA+EA.		
581	752	nviPreFilterSel	Prefilter select	0 - 3	SNVT_count
582	753	nvoPreFilterSel	Prefilter select		
			Setting for prefilter select function. 0=Inactive. 1=Supply air. 2=Extract air. 3=SA+EA.		
583	754	nviSA_PfilterLim	SA PreFltr alarm limit	10-1000Pa	SNVT_press_p
584	755	nvoSA_PfilterLim	SA PreFltr alarm limit		
			Supply air prefilter pressure alarm limit setting.		
585	756	nviEA_PfilterLim	EA PreFltr alarm limit	10-1000Pa	SNVT_press_p
586	757	nvoEA_PfilterLim	EA PreFltr alarm limit		
			Extract air prefilter pressure alarm limit setting.		
587	758	nviPfilterCalMod	PreFilt clbr mode	0 - 3	SNVT_count
588	759	nvoPfilterCalMod	PreFilt clbr mode		
			Setting for requiered filtercalibration. 0=Inactive. 1=SA+EA-Filter. 2=SA-Filter. 3=EA-Filter.		
589	794	nviPreHeatFunc	Preheating func	0 - 4	SNVT_count
590	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.		
591	796	nviPreHeatTmpSet	Preheating temp set	-30.00-30.00°C	SNVT_temp_p
592	797	nvoPreHeatTmpSet	Preheating temp set		
			Setting of preheating temperature setpoint.		
593	816	nviPreHeat_PB	Preheat P-band	1.00 - 40.00	SNVT_temp_p
594	817	nvoPreHeat_PB	Preheat P-band		
			Preheat regulator P-band setting.		

595	818	nviPreHeat_CF	Preheat C-factor	0.000 - 2.500	SNVT_multiplier
596	819	nvoPreHeat_CF	Preheat C-factor		
			Preheat regulator affection setting.		
597	919	nviSA_Filter_C_L	Sup air flt calculated alarm level	5.00-20.00%	SNVT_lev_percent
598	920	nvoSA_Filter_C_L	Sup air flt calculated alarm level		
			Supply air filter calculated alarm limit setting.		
599	921	nviEA_Filter_C_L	Ext air flt calculated alarm level	5.00-20.00%	SNVT_lev_percent
600	922	nvoEA_Filter_C_L	Ext air flt calculated alarm level		
			Extract air filter calculated alarm limit setting.		
601	923	nviModeOutRelay1	Mode output relay 1	0 - 8	SNVT_count
602	924	nvoModeOutRelay1	Mode output relay 1		
			Setting of mode output relay 1 function. 0=Damper. 1=Operation. 2=Low speed. 3=High speed. 4=Alarm A. 5=Alarm B. 6=Heating. 7=Cooling 1. 8=Cooling 2.		
603	925	nviModeOutRelay2	Mode output relay 2	0 - 8	SNVT_count
604	926	nvoModeOutRelay2	Mode output relay 2		
			Setting of mode output relay 2 function. 0=Damper. 1=Operation. 2=Low speed. 3=High speed. 4=Alarm A. 5=Alarm B. 6=Heating. 7=Cooling 1. 8=Cooling 2.		
605	927	nviModeInput1	Mode input 1	0 - 6	SNVT_count
606	928	nvoModeInput1	Mode input 1		
			Setting of mode input 1 function. 0=Stop. 1=Low speed. 2=High speed. 3=Alarm 1. 4=Alarm 2. 5=Reset. 6=Fire.		
607	929	nviModeInput2	Mode input 2	0 - 6	SNVT_count
608	930	nvoModeInput2	Mode input 2		
			Setting of mode input 2 function. 0=Stop. 1=Low speed. 2=High speed. 3=Alarm 1. 4=Alarm 2. 5=Reset. 6=Fire.		
609	931	nviMornboostMa_h	Mrn bst manual hour	0-23	SNVT_time_hour
610	932	nvoMornboostMa_h	Mrn bst manual hour		
			Setting of manual morning boost time before normal operation.		
611	933	nviMornboostMa_m	Mrn bst manual min	0-59	SNVT_time_min
612	934	nvoMornboostMa_m	Mrn bst manual min		
			Setting of manual morning boost time before normal operation.		

613	935	nviAiringTmpSet	Airing temp set	10.00-20.00°C	SNVT_temp_p
614	936	nvoAiringTmpSet	Airing temp set		
			Setting of airing temperature setpoint.		
615	937	nviAiringTimeSet	Airing time set	10-60	SNVT_time_min
616	938	nvoAiringTimeSet	Airing time set		
			Setting of airing time in minutes.		
617	939	nviManOpMode	Manual operation mode	0 - 4	SNVT_count
618	940	nvoManOpMode	Manual operation mode		
			Setting of manual operation drift mode. 0=Normal operation. 1=Extended operation. 2=Airing. 3=Heating. 4=Heating+Recirc.		
619	842	nvoMajorVerLon	Major version of SW in GW	0 - 65535	SNVT_count
			Major version of software in LonWorks gateway.		
620	843	nvoMinorVerLon	Minor version of SW in GW	0 - 65535	SNVT_count
			Minor version of software in LonWorks gateway.		
621	1	nvoObjStatus	Response status variable to obj_request		SNVT_obj_status
622	2	nviObjRequest	Request variable for status of obj_status		SNVT_obj_request
623		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.		
624		nciSndHrtBt	Send Heartbeat Time		SNVT_time_sec
			0 = The send heartbeat function is disabled.		
625		nciRcvHrtBt	Receive Heartbeat Time		SNVT_time_sec
			0 = The receive heartbeat function is disabled.		
626		nciMinOutTm	Min Time Between updates		SNVT_time_sec
			Minimum period of time between automatic network variable output transmissons. 0 = The min time between function is disabled.		
627		nciLocation	Location		SNVT_str_asc
			Free text string.		
628		nciSwitchCfg	SNVT_switch inp 0=as spec,>=1 value OR state		SCPTzoneNum
			Unsigned Long		