

# ComfoWay

## KNX – ETS setup guide

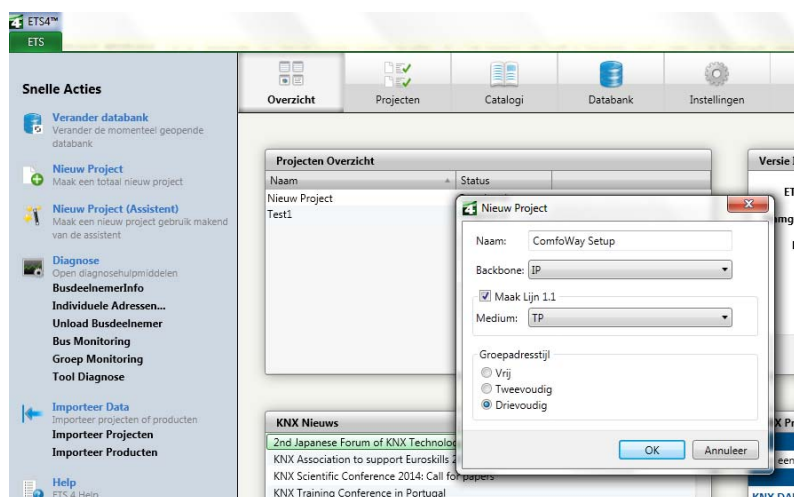
Follow the next simple steps to use your ComfoWay in line with ETS. Consider that the ComfoWay itself does not have a ETS product database, and is not directly configured through ETS. So in order to use all ETS features (dra pand drop, create filters, project control, ...) you will use the common trick to model you ComfoWay/air with a dummy device. This explanation is based on the GroupAddresses (GA) which are already configured by default in your ComfoWay gateway. (see list at the end of this document)



**Info:** if the IP-KNX gateway features of your ComfoWay are enabled (=default setting), then you can use the ComfoWay to connect your PC/ETS to the KNX bus: ETS will automatically detect its KNX-IP gateway on your LAN network. So you do not need to buy any other KNX-PC link (IP or USB or RS232) for your installation, to program your other KNX devices or use the ETS group monitor.

## 1 New Project

Create a new project (or open your existing project to add to)



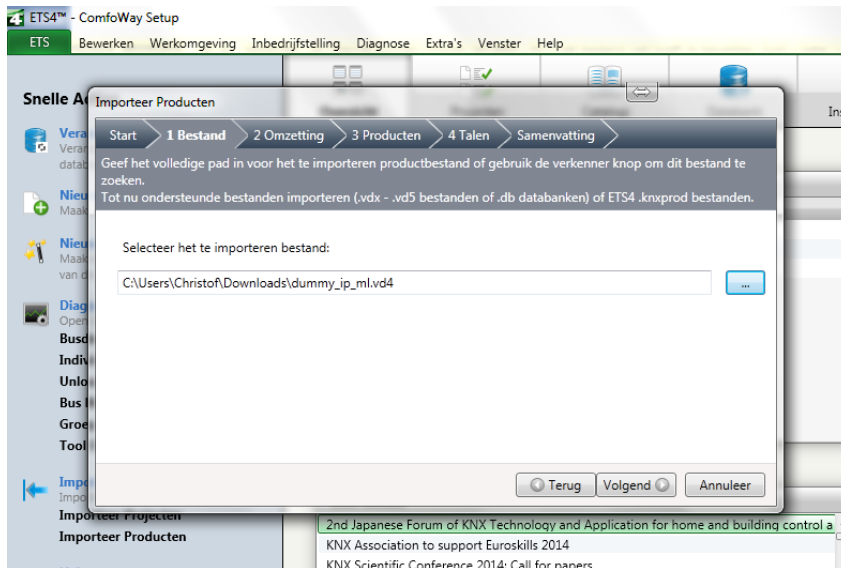
## 2 Import New product into catalog

You will need a dummy product database in your catalog.

If you do not yet have such dummy device, then download the dummy database file from Gira (or any other available download). Alternatively, there is an ETS-app for dummy devices which you can buy.

To find the download just 'google': 'gira dummy knx application' and follow the first link (most probably): <http://www.gira.com/en/service/download/download.html?id=1084>

Open the import window and point the the downloaded Dummy device product database file:



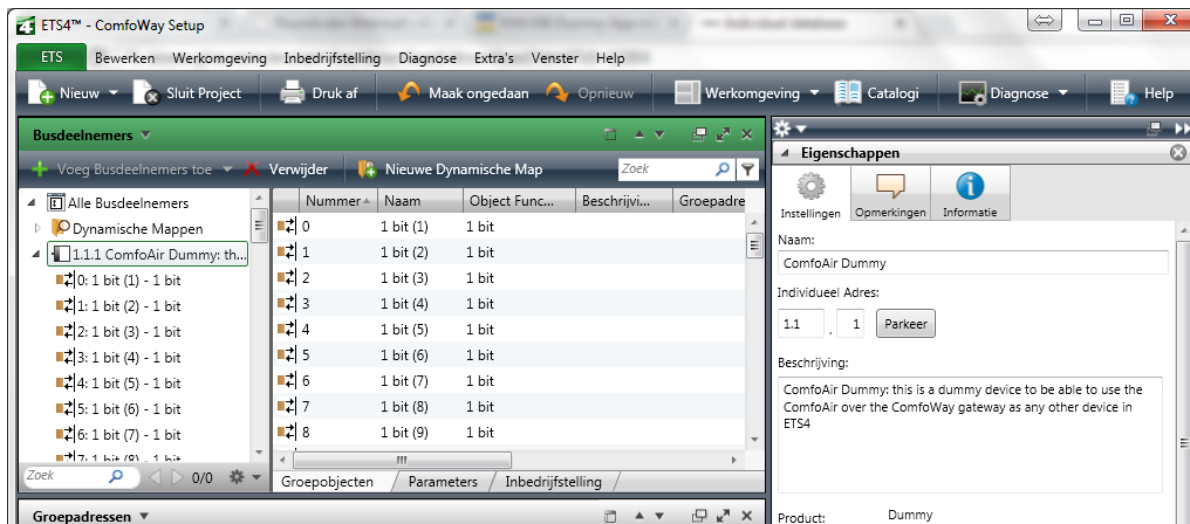
, then click 'Next' until the import is finished and confirmed.

Now in your catalog you will have vendor 'Gira giersiepen' with 2 dummy devices, a 'small' and a 'large' one.

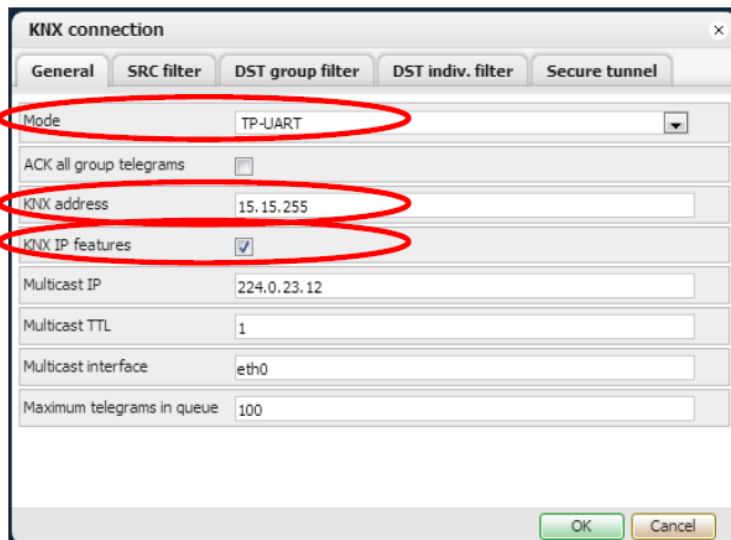
### 3 Add a dummy bus device for your ComfoAir

Select type/vendor 'Gira giersiepen – Large Dummy application 900201' in the catalog and drag & drop it to add a new device.

Configure the physical address, name and description as for any device:



In this case the physical address was set to 1.1.1 . Make sure to log in to you comfoWay, and set the the physical KNX bus address also to 1.1.1. Below is the popup you'll get with the default values. So verify them and modify 15.15.255 into 1.1.1 (or the address you use in your project)

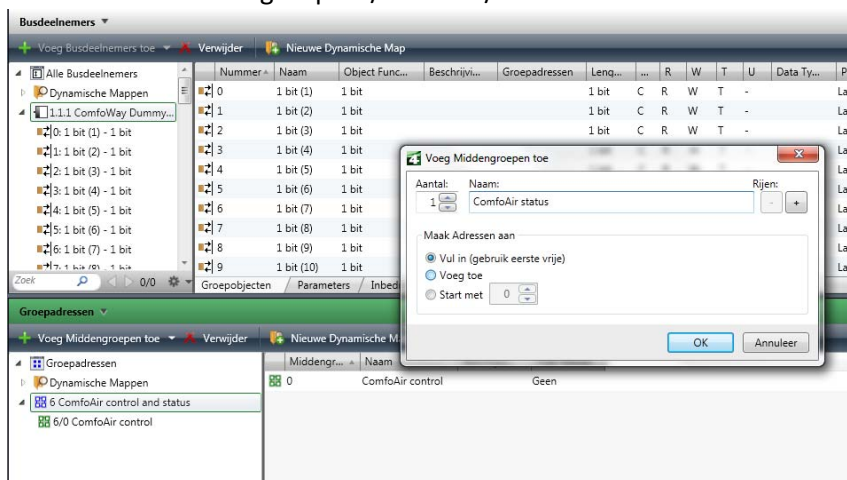


**Note:** if you fail to do this (on a small KNX installation with 1 line), then this has no functional impact. However, in the group monitor, ETS will not recognise the telegrams as from the 1.1.1 ComfoWay/Air dummy, since ETS will see 15.15.255 as the address.

## 4 Add the default ComfoWay/ComfoAir groupaddresses

### 4.1 Main and middle groups, then groupaddresses

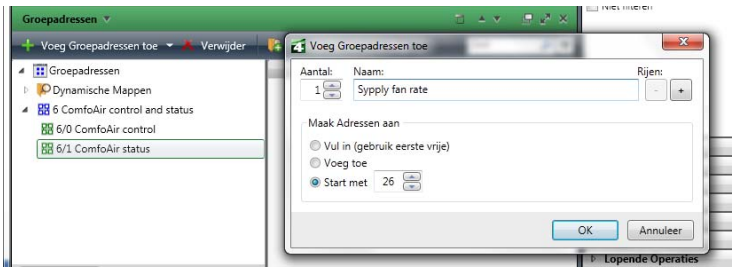
- First add the main group '6'
- Then add the middle groups '6/0' and '6/1':



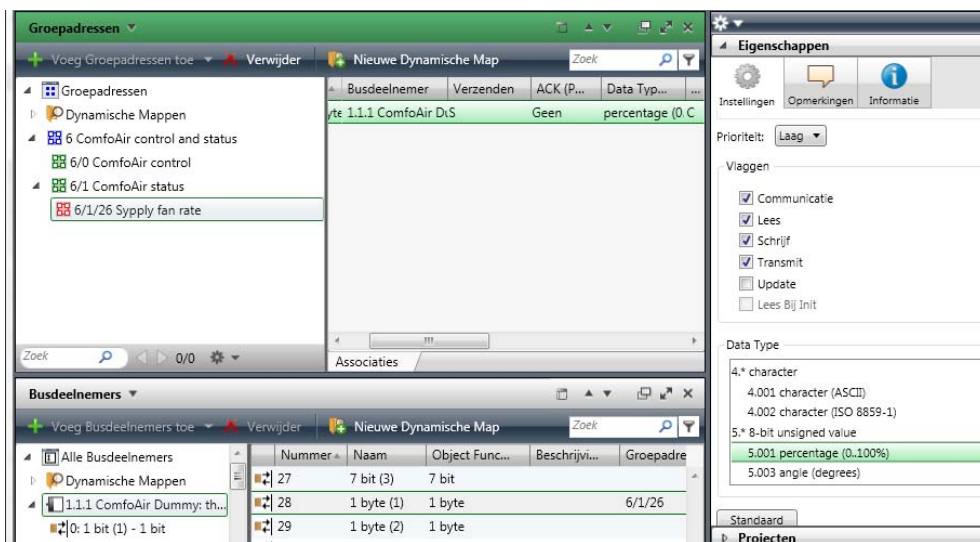
- Finally add all the other group addresses you which to use, as listed in the communication object list for the ComfoWay at the end of this document.

### 4.2 Example 1: the Supply fan rating (is a status only)

- Add one group address: use the default group address for the object you want, as listed in the communication list. In this case: 6/1/26 for the 'Supply fan rate'



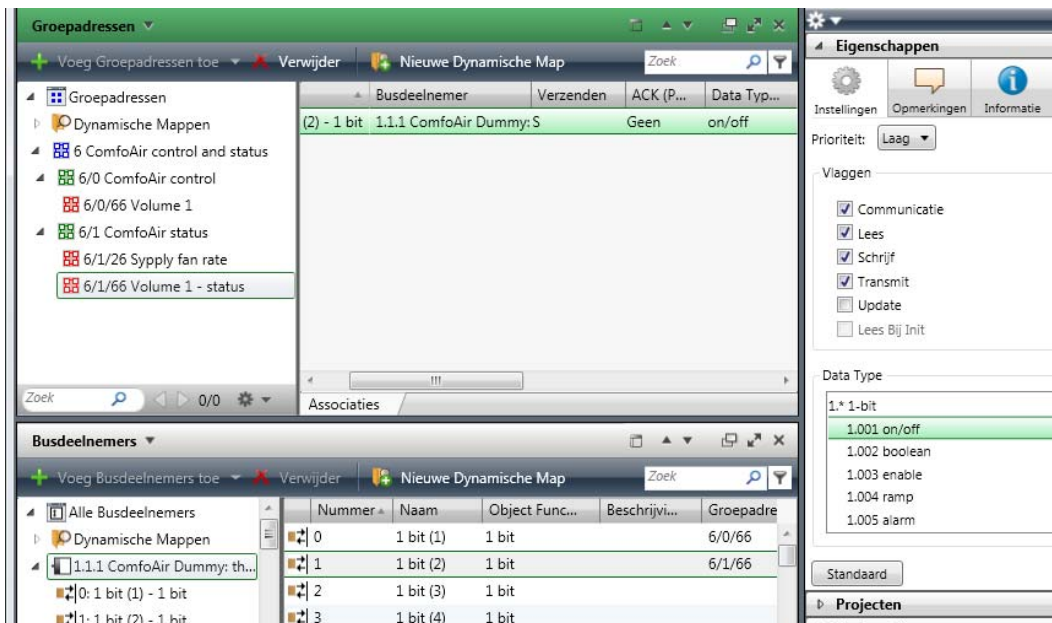
- Then use the ETS drag and drop to link it to the ComfoWay/Air dummy. Make sure you use a communication object with the corresponding data type as in the communication object list. Data type 5 and 5.001 = 1 byte, so in this case we choose to use object 28 of the ComfoWay dummy. Then select the Groupaddress and open the properties window: here you set the correct Data type (in this case 5.001)



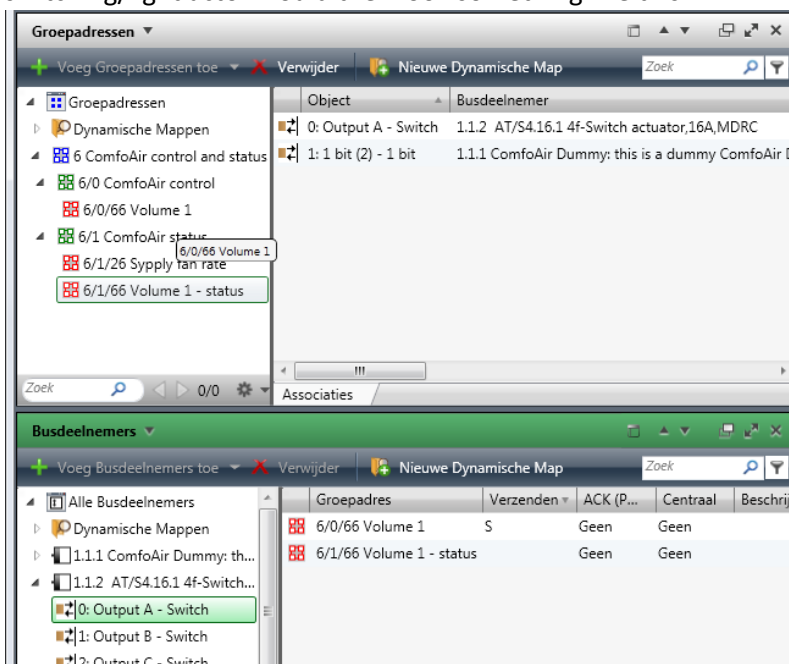
- From now on, use the groupaddress 6/1/26 to link is to any other communication object of any other device

#### 4.3 Example 2: a button to activate volume position 1 on the ComfoAir

- 'Volume1' is a binary command and status object used to set/know is volume position 1 is active on your ComfoAir. The respective default groupaddresses are: 6/0/66 and 6/1/66. And this time they are communication objects of data type 1 or 1.001 or ... (=1 bit). So after:
  - o adding the 2 groupaddresses,
  - o drag-and-dropping then to a dummy 1-bit object
  - o setting the data type in the GA property window to 1 or 1.001
 you should see :



- If you want to control volume 1 from a (toggle) button/switch, all that is left to do is to drag and drop 6/0/66 to the button write (this will by default become the sending GA). If you use a toggle button, then after that also drag and drop 6/1/66 to the write object (but non-sending), so that your button is aware of changes in status ... but that's identical to how you would configure for instance a light actor from a toggle button. The configuration of the switching/light actor would then look something like this:



#### 4.4 Additional group addresses

You can now add as many objects and group addresses you want or need. At some point you can get into the situation where the ComfoWay/Air dummy device is 'full': there is no more free 1-byte communication object to add another 1-byte function.

Here you can do 2 things:

- if you are a purist add a 2nd dummy device for your ComfoWay – ComfoAir gateway and proceed.
  - If you are more pragmatic: just reuse a 1 bit object **of the same datatype**. Afterall, the dummy device is not really used to programm the ComfoWay device, but just to hold assignments and to verify datatypes, and to keep your project clean. If you use a lot of communication object, you would typically group them:
    - o All 4 volumeX commands to one bit and the 4 volumeX status to another
    - o Or the volume1 command and status together, the volume2 command and status, etc ...
- Use your own preference to do so.

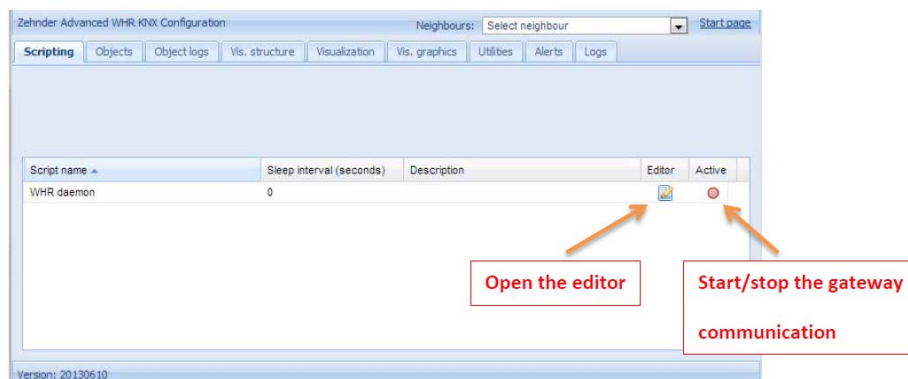
## 5 Non default Group Addresses

If you wish, you can also:

- Add other group addresses to the same ComfoWay communication object (on top of the default ones)
- Modify the default group addresses (not recommended if you wish to keep using the embedded visualisation for your ComfoAir)

There are two step you need to do:

- Add the Group addresses to your ETS project, just as before (create GA and link to dummy device)
- Login to your ComfoWay, go to the Configuration page and into the KNX and Vizu configuration. Then in the scripts tab you click the edit icon of the ComfoWay daemon script to open the script editor.



### Example

If you wish to add GA 1/2/3 to the 'volume' command communication object then modify in the editor:

```
whr.GA.command={
    volume = { '6/0/0' },
```

into

```
whr.GA.command={
    volume = { '6/0/0', '1/2/3' },
```

and click save and close.

Version : V1.8

# Communication objects implemented

Object name	Information in object	data type	Write	Status	Default Status update interval [s]	Usage	Menu & manual reference code	Luxe only	6/X/X default Range	
									Write GA	Status GA
volume	Volume control	5	1	1	1	Allowed values: 0, 1, 2, 3, 4 0 = Away 4 = Auto Other values: ignored			6/0/0	6/1/0
volumeMan	Manuel volume control	5	1	1	1	Allowed values: 0, 1, 2, 3 0 = Away Other values: ingored			6/0/60	6/1/60
volumeAuto	Automatic volume control	1	1	1	1	1 = On 0 = Off			6/0/61	6/1/61
volume0	Manuel volume control - Away	1	1	1	1	1 = On 0 = Off (for status only. 'O' command has no effect)			6/0/65	6/1/65

volume1	Manuel volume control - pos 1	1	1	1	1	1 = On 0 = Off (for status only. 'O' command has no effect)			6/0/66	6/1/66
volume2	Manuel volume control - pos 2	1	1	1	1	1 = On 0 = Off (for status only. 'O' command has no effect)			6/0/67	6/1/67
volume3	Manuel volume control - pos 3	1	1	1	1	1 = On 0 = Off (for status only. 'O' command has no effect)			6/0/68	6/1/68
Tcomfort	Comfort temperature	9.001	1	1	1	[°C] Allowed range 12-28°C per 0,5 °C Other values within range are rounded to nearest half. Invalid values are dropped.	P41		6/0/1	6/1/1
airSupply	Supply air	1.011	1	1	5	(des)activates air supply fan			6/0/2	6/1/2
airExhaust	Extract air	1.011	1	1	5	(des)activates air exhaust fan			6/0/3	6/1/3
filterReset	Filter timer reset	1	1			1=reset	P77		6/0/5	6/1/5
errorReset	Error reset (of ComfoD)	1	1			1=reset	P74		6/0/6	6/1/6
filterTime	filter Dirty weeks	5	1	1	3.600	number of weeks clogged filter alarm	P24		6/0/7	6/1/7



RS232	RS232 communication mode	5	1	1	-	Do not use unless for specific advanced needs, can disturb normal funtionning. Only use when instructed, 1=only PC, 3=pc_master, 4=pc_logmode, 0=none			6/0/8	6/1/8
T1	T1	9.001		1	60	[°C]	P45			6/1/11
T2	T2	9.001		1	60	[°C]	P46			6/1/12
T3	T3	9.001		1	60	[°C]	P47			6/1/13
T4	T4	9.001		1	60	[°C]	P48			6/1/14
Tge	T ground exchanger	9.001		1	60	[°C]	P49	X		6/1/21
Tah	T after heater	9.001		1	60	[°C]	P40	X		6/1/22
Tkh		9.001		1	60	[°C]	P44	X		6/1/23
Tenth	T enthaply	9.001		1	60	[°C]		X		6/1/24
Menth	Moisture enthalpy	5.001		1	60	[%]		X		6/1/25
supplyFan	Supply fan rate	5.001		1	10	[%]	P39			6/1/26
exhaustFan	Exhaust fan rate	5.001		1	10	[%]	P38			6/1/27
bypassValve	Bypass valve	5.001		1	10	[%]				6/1/28
preheatValve	Preheat valve	5.001		1	10	[%]				6/1/29
errorActual	Error Actual present	1.005		1	60					6/1/30
errorLast	Error Last present	1.005		1	60		P71-1 - P71-4			6/1/31
filterDirty	Filter dirty	1.005		1	3600					6/1/32
errorActualStr	Actual error string	16		1	60	String: diagnostic code from manual				6/1/33

errorLastStr	Last error string	16		1	60	String: diagnostic code from manual	P71-1 - P71-4			6/1/34
timerA	Timer A	12		1	3600	[h]				6/1/40
timer1	Timer 1	12		1	3600	[h]				6/1/41
timer2	Timer 2	12		1	3600	[h]				6/1/42
timer3	Timer 3	12		1	3600	[h]				6/1/43
timerFrost	Timer frost	12		1	3600	[h]				6/1/44
timerPreheat	Timer Preheat	12		1	3600	[h]				6/1/45
timerBypass	Timer Bypass	12		1	3600	[h]				6/1/46
timerFilter	Timer filter	12		1	3600	[h]				6/1/47
timerFilterWk	Timer filter in weeks	5		1	3600	[weeks]				6/1/48
errorComm	Communication error	1.005		1	30	RS232 comm error in gateway to WHR unit				6/1/50
bypassActive	Bypass active	1		1	10		P90-P96			6/1/80
EWTActive	Ground heat exch active	1		1	10		P90-P96			6/1/81
frostActive	Frost protection active	1		1	10		P90-P96			6/1/82
afHeatActive	After heater active	1		1	10		P90-P96			6/1/83
hoodActive	Hood mode active	1		1	10		P90-P96			6/1/84
analogAutoMode	Analog Auto mode	1	1	1	60	switches on/off analog auto mode control		X	6/0/70	6/1/70
analog1set	Analog setpoint 1	5.001	1	1	60	[%]	P812	X	6/0/71	6/1/71
analog2set	Analog setpoint 2	5.001	1	1	60	[%]	P822	X	6/0/72	6/1/72
analog3set	Analog setpoint 3	5.001	1	1	60	[%]	P832	X	6/0/73	6/1/73
analog4set	Analog setpoint 4	5.001	1	1	60	[%]	P842	X	6/0/74	6/1/74
analog1value	Analog value 1	5.001		1	60	[%]	P816	X		6/1/75
analog2value	Analog value 2	5.001		1	60	[%]	P826	X		6/1/76
analog3value	Analog value 3	5.001		1	60	[%]	P836	X		6/1/77
analog4value	Analog value 4	5.001		1	60	[%]	P846	X		6/1/78

exhaustFanVolA	Exhaust Fan Speed setting - A	5.001	1	1	60	valid [%] values as per manual, invalid values dropped	P30		6/0/94	6/1/94
exhaustFanVol1	Exhaust Fan Speed setting - 1	5.001	1	1	60	valid [%] values as per manual, invalid values dropped	P31		6/0/95	6/1/95
exhaustFanVol2	Exhaust Fan Speed setting - 2	5.001	1	1	60	valid [%] values as per manual, invalid values dropped	P32		6/0/96	6/1/96
exhaustFanVol3	Exhaust Fan Speed setting - 3	5.001	1	1	60	valid [%] values as per manual, invalid values dropped	P33		6/0/97	6/1/97
supplyFanVolA	Supply Fan Speed setting - A	5.001	1	1	60	valid [%] values as per manual, invalid values dropped	P34		6/0/90	6/1/90
supplyFanVol1	Supply Fan Speed setting - 1	5.001	1	1	60	valid [%] values as per manual, invalid values dropped	P35		6/0/91	6/1/91
supplyFanVol2	Supply Fan Speed setting - 2	5.001	1	1	60	valid [%] values as per manual, invalid values dropped	P36		6/0/92	6/1/92
supplyFanVol3	Supply Fan Speed setting - 3	5.001	1	1	60	valid [%] values as per manual, invalid values dropped	P37		6/0/93	6/1/93
boostActive	Boost mode active	1	1	1	10		P17		6/0/86	6/1/86
boostTime	Boost mode duration	5	1	1	3600	valid [min] values as per manual: 0-120; other values dropped	P27		6/0/85	6/1/85