

Building Management System (BMS)

Vad är BMS?

Ett Building Management System (BMS), även kallat Building Automation System (BAS), är ett datorbaserat styrsystem som hanterar och kontrollerar de olika byggnadssystemen, inklusive HVAC, belysning, säkerhet och andra byggnadssystem. Det används för att övervaka och styra byggnadens miljö och se till att den är säker, effektiv och bekväm för de boende.

BMS-systemet för värmepumpar består av hårdvaru- och programvarukomponenter som arbetar tillsammans för att hantera och styra värmepumpsystemet. Hårdvarukomponenterna omfattar givare, styrenheter och ställdon som är installerade i värmepumpsystemet. Programvarukomponenterna omfattar BMS-programvaran som körs på en dator och användargränssnittet som gör det möjligt för fastighetsförvaltare att interagera med systemet.

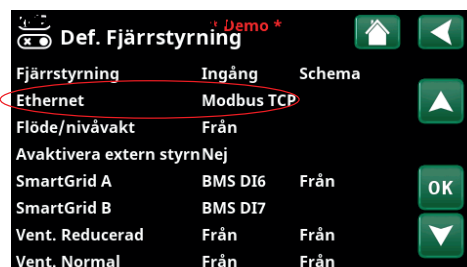
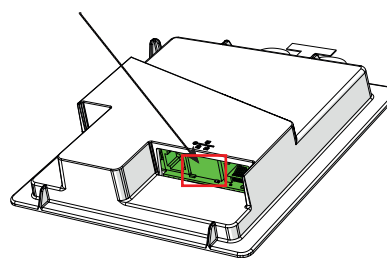
BMS-systemet för värmepumpar fungerar genom att samla in data från värmepumpsystemet, såsom temperatur, tryck och flödes hastighet. Uppgifterna analyseras sedan och används för att styra värmepumpsystemet. T.ex. justering av kompressorns maximala varvtal för att minska energianvändningen i tider då elen är dyr.

Definiera BMS

För att upprätta kommunikation mellan värmepumpen och BMS-systemet måste "Modbus TCP" definieras i displaymenyn "Definiera fjärr" (vid anslutning till displayen via Ethernet-anslutningsporten). För mer information, se värmepumpens Installations- och skötselmanual.

i Endast displayer med 3 anslutningsportar kan anslutas till BMS via TCP/IP.

Ethernet anslutningsport (Modbus TCP/IP)



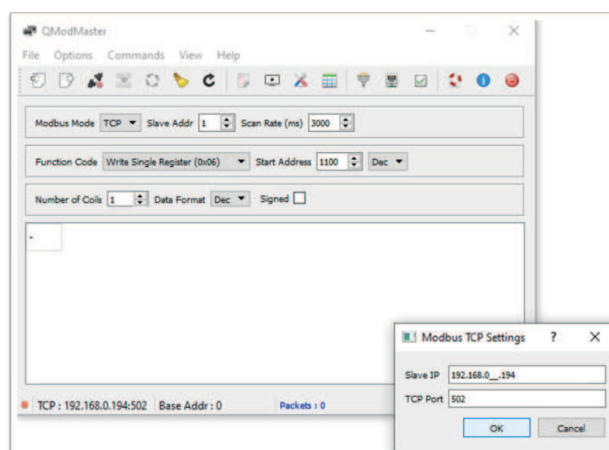
Displaymeny "Avancerat/Definiera/Fjärrstyrning".

Viktigt att komma ihåg!

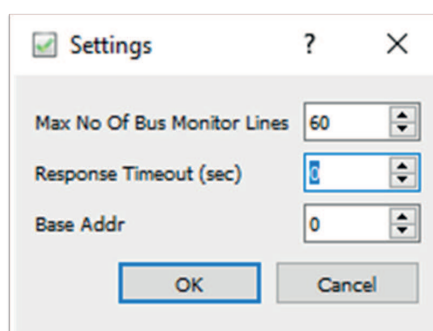
Ett BMS-system bör endast användas av specialiserade programmerare. Trots detta är det viktigt att veta hur CTC-regulatorn fungerar.

Programmerare bör alltid använda QModMaster när de testar funktionaliteten.

Detta program finns kostnadsfritt på Internet.



Kontrollera att basadressen alltid är 0:



Allmänna data

Registernummer startar över standard Modbus (större än 49999)

Läsa: Analoga Holding Output register

Funktionskod: 0x03H / 3

Skriva: Analoga Holding Output register

Funktionskod: 0x10H / 16

Offset: 0

Max antal register per överföring: 100.

Styrparametrar

Det finns ett antal 1000-register. Dessa register skall användas för att aktivt styra och reglera parametrar.

Registren måste uppdateras var 5:e minut, annars kommer de att återställas. De kommer också att återställas vid omstart.

Parametrarna kan ställas in så mycket som programmeraren vill, utan några risker.

Styrparametrar för CTC EcoLogic S

För CTC EcoLogic S finns det två specifika register. Det första är till för att starta och stoppa värmepumpen. Det andra är till för att ställa in värmepumpens primärflöde.

Funktion	Adress
Start värmepump	1000
Börvärde framledning	1001

Detta är för kunder som bygger sina egna system där de själva styr shuntar, ventiler etc. och där de använder sin egen logik för vad värmepumpen ska göra.

Styrparametrar för alla andra regulatorer

Funktion	Adress
Max RPS kompressor	1002
Max effekt spetsvärme nedre tank (för alla styrande enheter)	1003
Max effekt spetsvärme övre tank (For CTC EcoZenith i255, CTC EcoZenith i555 och CTC EcoLogic M/L ¹)	1004
Virtuell digital insignal	1100 ²

1 Beroende på valt system

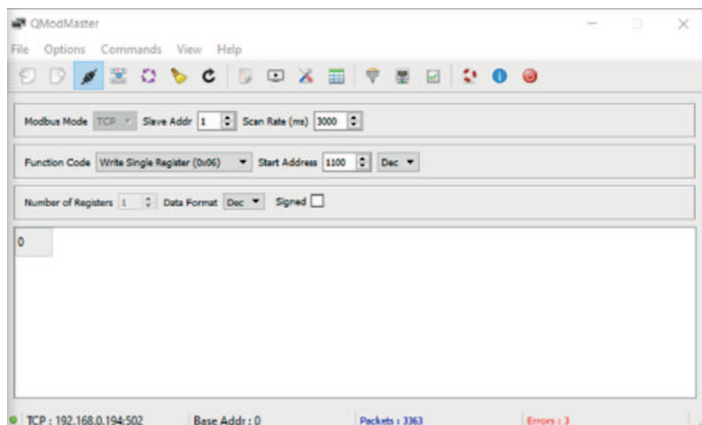
2 Virtuella digitala ingångar, istället för K22-K24 för samma funktioner

T.ex. för ett värmesystem kan värmekurvan ställas in och sedan kan adress 1002 styras för att få önskad värmetillförsel från värmepumpen.

Även elpatronen kan begränsas/styras med dessa register.

Virtuella digitala ingångar (Register 1100)

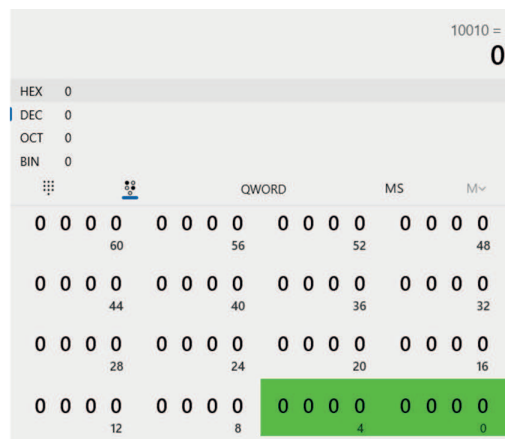
Virtuella digitala ingångar är programvarubaserade ingångar som simulerar fysiska ingångar i ett BMS. De används när fysiska ingångar inte är tillgängliga eller inte kan installeras. De kan t.ex. användas för CTC-funktionen Smart elprisstyrning.



1)

PIN	BIT
BMS Di 0	Bit 0
BMS Di 1	Bit 1
BMS Di 2	Bit 2
BMS Di 3	Bit 3
BMS Di 4	Bit 4
BMS Di 5	Bit 5
BMS Di 6	Bit 6
BMS Di 7	Bit 7

Om register 1100 är 0 betyder det att alla 8 bitarna (0 till 7) är öppna.



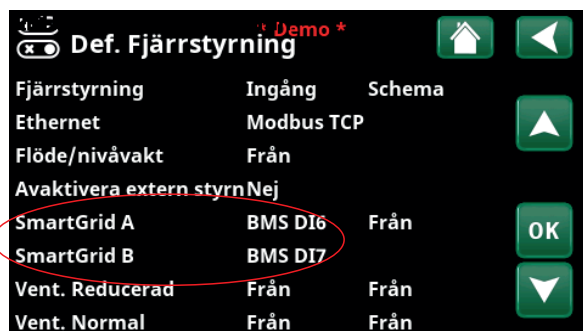
Om register 1100 är 255 betyder det att alla 8 bitarna (0 till 7) är stängda.



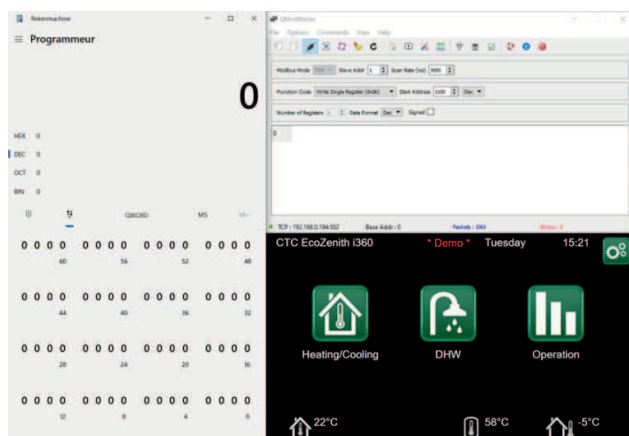
Exempel med SmartGrid

I detta exempel använder vi digital ingång 6 (DI6) för SmartGrid A och digital ingång 7 (DI7) för SmartGrid B. För enkelhetens skull antar vi att andra digitala ingångar inte används.

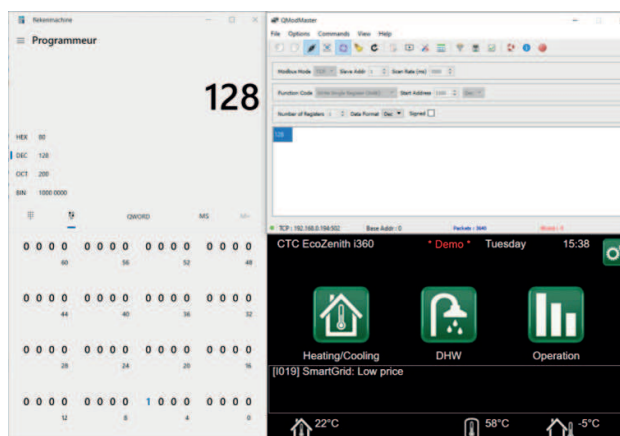
K22 (SG A)	K23 (SG B)	Funktion
Öppen	Öppen	Normal
Öppen	Sluten	Lågrpris
Sluten	Sluten	Överkapacitet
Sluten	Öppen	Blockering



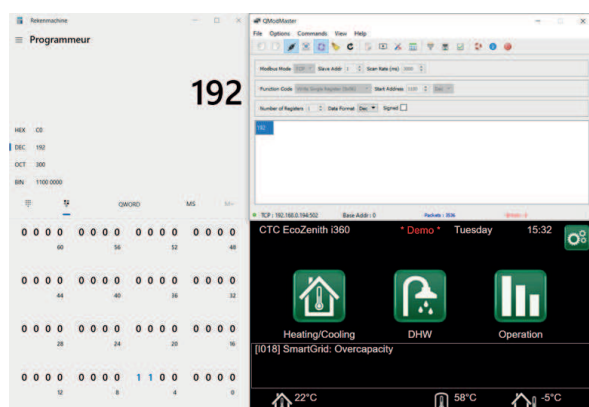
Funktion SG Normal



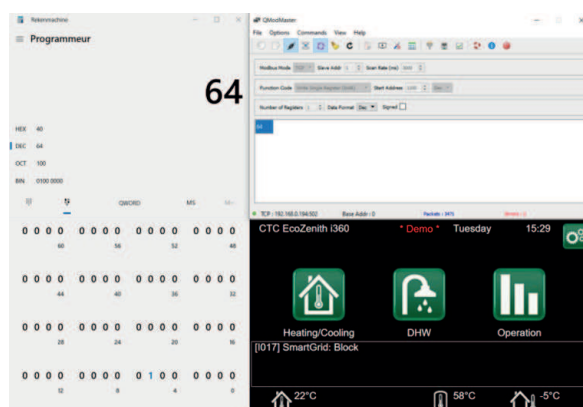
Funktion SG Lågrpris



Funktion SG Överkapacitet



Funktion SG Blockering



Anmärkning: Prioriteringen för SmartGrid är:

1. Fjärrstyrning (BMS/digitala ingångar/...)
2. myUplink
3. Veckoschema
4. Inställning

Om båda kontakterna är öppna (normal drift) finns det naturligtvis ingen prioritet för BMS eller ingångarna.

Larm och informationstexter

För larm och informationstexter arbetar vi i två steg.

- Första steget (Hur många larm/informationstexter har vi?)
- Andra steget (Vilket är det exakta larmet/informationstexten?)

Hur många larm/infotexter har vi?

För att veta hur många larm/infotexter man har bör man läsa **register 65133**.

Du måste se på siffran på ett hexadecimalt sätt för att veta hur många larm och hur många infotexter du har.

De första två siffrorna är för infotexterna, de andra två siffrorna är för larmen.

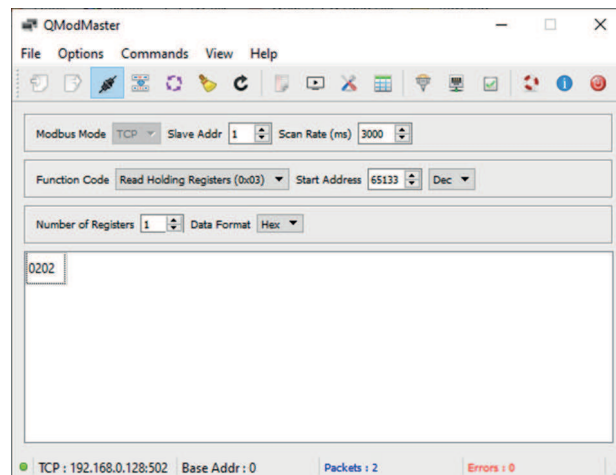
Det absoluta maxantalet du kan ha är FFFF (eller 255 infotexter och 255 larm).

Ett exempel:

#0202 (1 hex)

=> 02 = 2 informationstexter

=> 02 = 2 larm



Vad betyder larmet/infotexten?

I nästa steg kan du se mer detaljerad information om larmen och infotexterna.

Läsning av register 65133 måste föregå detta steg eftersom det fyller på data i buffertarna.

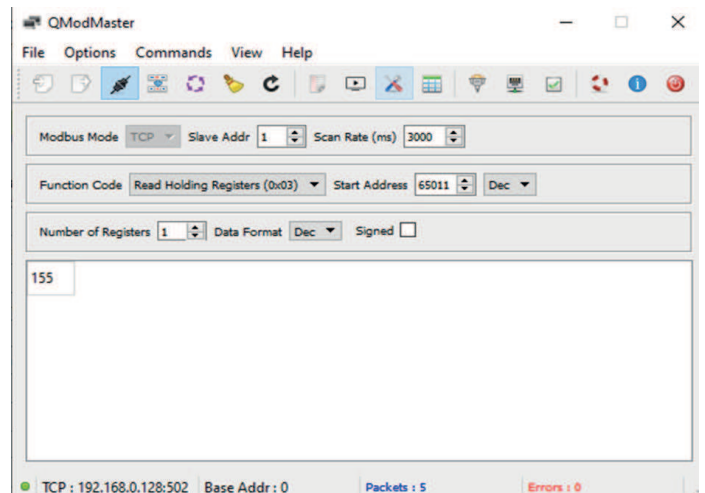
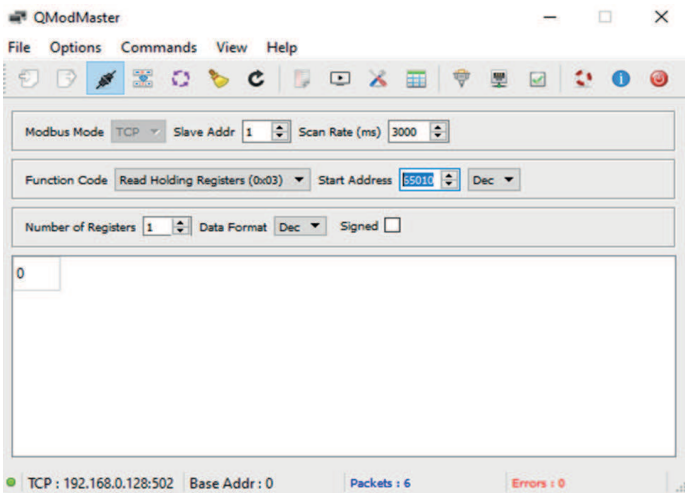
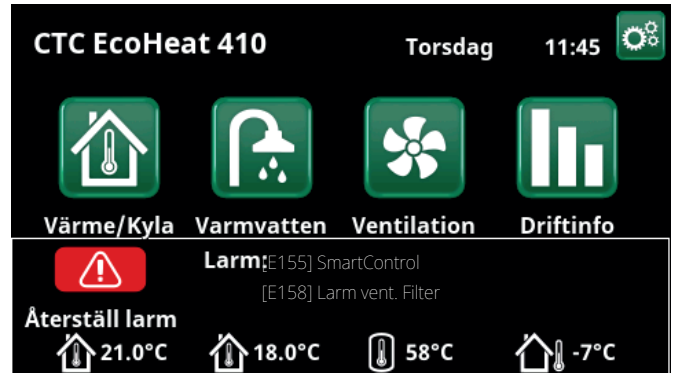
Register	
Larm	65010 - 65059
Infotexter	65060 - 65069

Register	Larmnummer	Förklaring
65010	1	VP-larm (VP 1-10). '1' om det är ett VP-larm, '0' om det är ett annat larm, t.ex. problem med sensorn EcoZenith).
65011	1	Den faktiska larmkoden.
65012	2	VP-larm (VP 1-10). '1' om det är ett VP-larm, '0' om det är ett annat larm, t.ex. problem med sensorn EcoZenith).
65013	2	Den faktiska larmkoden.
65014	3	VP-larm (VP 1-10). '1' om det är ett VP-larm, '0' om det är ett annat larm, t.ex. problem med sensorn EcoZenith).
65015	3	Den faktiska larmkoden.
65016	4	...

Register	Larmnummer	Förklaring
65060	1	VP-infotext (VP 1-10). '1' om det är en VP-infotext, '0' om det är en annan infotext, t.ex. HC1 Värme av).
65061	1	Den faktiska informationstextkoden.
65062	2	VP-infotext (VP 1-10). '1' om det är en VP-infotext, '0' om det är en annan infotext, t.ex. HC1 Värme av).
65063	2	Den faktiska informationstextkoden.
65064	3	...

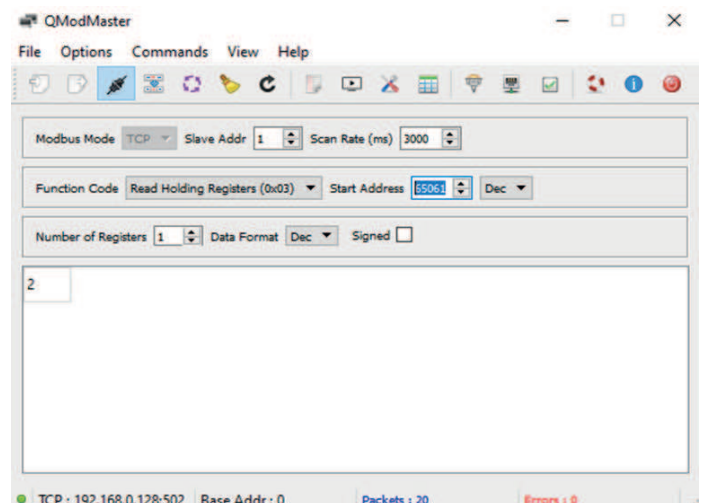
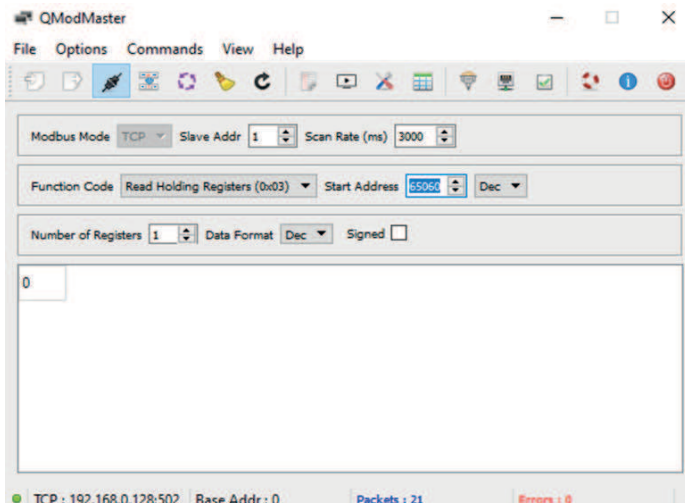
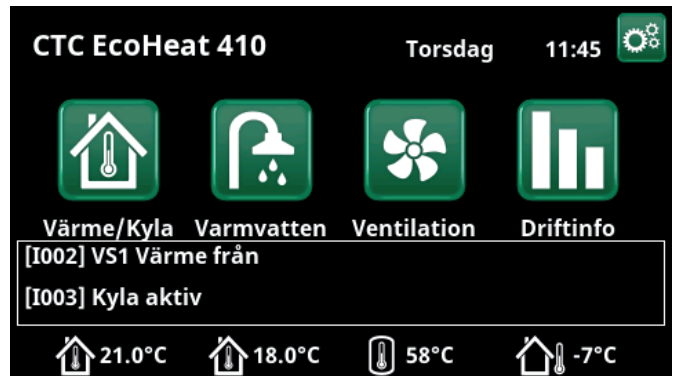
Ett exempel för larm

Register	Larmnummer	Värde	Förklaring
65010	1	0	Inte ett VP-larm
65011	1	E155	SmartControl
65012	2	0	Inte ett VP-larm
65013	2	E158	Larm vent. Filter
65014	3	0	N/A, inget 3:e larm
65015	3	0	N/A



Ett exempel för informationstexter

Register	Larmnummer	Värde	Förklaring
65060	1	0	Inte VP-info
65061	1	I2	VS1 Värme från
65062	2	0	Inte VP-info
65063	2	I3	Kyla aktiv
65064	3	0	N/A, inget 3:e larm
65065	3	0	N/A



Modbus adressregister

På följande sidor visas en komplett förteckning över aktuella BMS-adressregister.

Observera att inte alla parametrar i BMS-listan kan användas för värmepumpsstyrning om din display inte är utrustad med 3 anslutningsportar (BMS via TCP/IP).

Building Management System (BMS)

What is BMS?

A Building Management System (BMS), also known as a Building Automation System (BAS), is a computer-based control system that manages and controls the various building systems, including HVAC, lighting, security, and other building systems. It is used to monitor and control the building's environment, ensuring that it is safe, efficient, and comfortable for the occupants.

The BMS system for heat pumps is composed of hardware and software components that work together to manage and control the heat pump system. The hardware components include sensors, controllers, and actuators that are installed in the heat pump system. The software components include the BMS software application that runs on a computer and the user interface that allows building managers to interact with the system.

The BMS system for heat pumps operates by collecting data from heat pump system, such as temperature, pressure, and flow rate. The data is then analysed and used to control the heat pump system. E.g adjusting the Max compressor speed to reduce energy use in times where electricity is expensive.

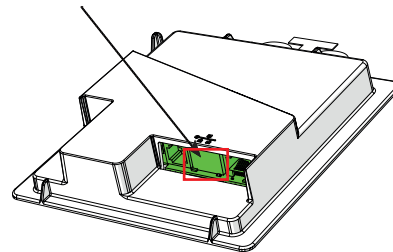
Define BMS

To establish communication between the heat pump and the BMS system, "Modbus TCP" must be defined in the display menu "Define remote" (if connecting to the display via the Ethernet connection port). For more information, see the heat pump user manual.



Only displays with 3 ports can use BMS via TCP/IP.

Ethernet connection port (Modbus TCP/IP)



Def. Remote control		
Remote control	Pin	Schedule
Ethernet	Modbus TCP	
Flow/level switch	Off	
Disable external controlNo		
SmartGrid A	BMS DI6	Off
SmartGrid B	BMS DI7	
Vent. Reduced	Off	Off
Vent. Normal	Off	Off

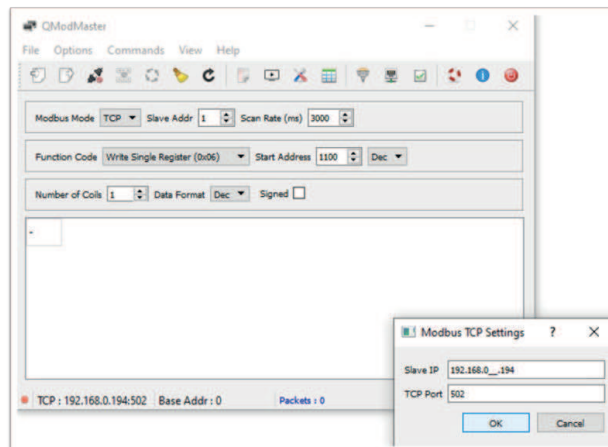
Display menu "Installer/Define/Remote Control".

Important to remember!

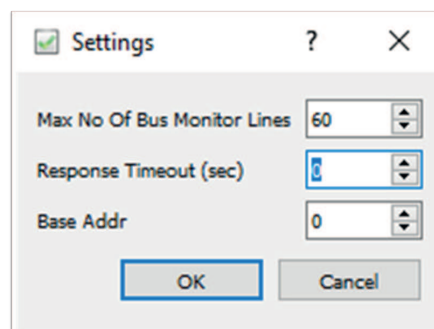
A BMS system should only be used by specialist programmers. Nevertheless, it is crucial to know how the CTC controller works.

Programmers should always use QModMaster if they are testing the functionality.

This program can be found free of charge on the internet.



Make sure the base address is always set to 0:



General data

Register number starts above standard Modbus (larger than 49999)

Reading: Analogue Output Holding Registers

Function code: 0x03H / 3

Writing: Analogue Output Holding Registers

Function code: 0x10H / 16

Offset: 0

Max register per transmission: 100.

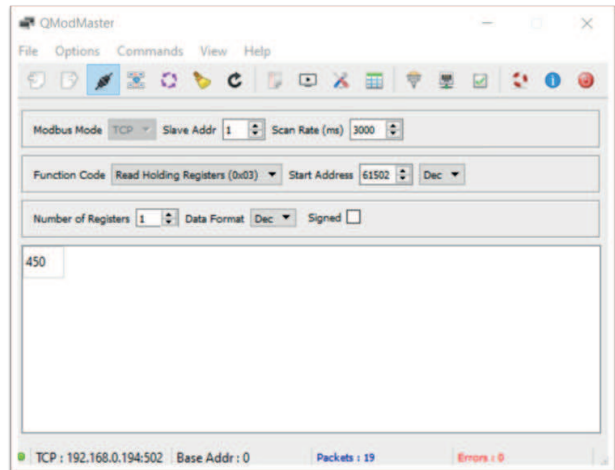
How to read the BMS list

BMS Register	English	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor
61500	Hot water mode 0=Economy 1=Normal 2=Comfort	1	RW	60000	60001	60002	62500	0	1
61501	Manual Stop temperature hot water	1	RW	60003	60004	60005	62500	1	0,1
61502	Setting outlet temperature hot water	1	RW	60006	60007	60008	62500	2	0,1
61503	Extra hot water timer	1	RW	60009	60010	60011	62500	3	0,5
61504	Maximum time heating Heat pump	1	RW	60012	60013	60014	62500	4	1
61505	Maximum time hot water	1	RW	60015	60016	60017	62500	5	1
61506	Minimum RPS hot water	1	RW	60018	60019	60020	62500	6	0,1
61507	Minimum RPS Pool	1	RW	60021	60022	60023	62500	7	0,1
61508	Number of vacation days timer	1	RW	60024	60025	60026	62500	8	1
61509	Heating system 1: setting room temp	1	RW	60027	60028	60029	62500	9	0,1
61510	Heating system 2: setting room temp	1	RW	60030	60031	60032	62500	10	0,1
61511	Heating system 3: setting room temp	1	RW	60033	60034	60035	62500	11	0,1
61512	Heating system 4: setting room temp	1	RW	60036	60037	60038	62500	12	0,1

BMS Register

A BMS register is a memory location in a Building Management System (BMS) controller that stores specific data related to building system functions. The data can include temperature setpoints, occupancy levels, and energy usage data. The BMS software uses registers to monitor and control the building systems.

e.g. 61502 : 450 x factor = 45 (°C)



Description

This is the explanation in short text of the meaning of the BMS register.

Signed

In a BMS, "signed" refers to a data type that can store both positive and negative values. It is used to represent data, such as temperature, that can have a range of values that includes negative numbers. An "unsigned" data type can only store positive values.

R/W

In BMS, "R/W" stands for "Read/Write" and refers to the ability to read and write data from a specific register. "R/W" registers can read and write data. "R" registers can only read data (e.g. sensors)

Control parameters

There are a number of 1000 registers. These registers are to be used to actively control and regulate parameters. These records need to be updated every 5 minutes or they will be reset. They will also be reset on restart.

These parameters can be set as much as the programmer wants, without any risks.

Control parameters for CTC EcoLogic S

For CTC EcoLogic S there are 2 specific registers. The first one is for starting and stopping the heat pump. The second one is for setting the primary flow of the heat pump.

Function	Address
Start heat pump	1000
Setpoint for primary flow	1001

This is for customers who build their own systems where they themselves control shunts, switch valves, tips etc. and where they use their own logic for what the heat pump should do.

Control parameters for all other controllers

Function	Address
Max RPS compressor	1002
Max power immersion heater lower tank (For all controllers)	1003
Max power immersion heater upper tank (For CTC EcoZenith i255, CTC EcoZenith i555 and CTC EcoLogic M/L ¹)	1004
Virtual digital in	1100 ²

¹ Depending on the selected system

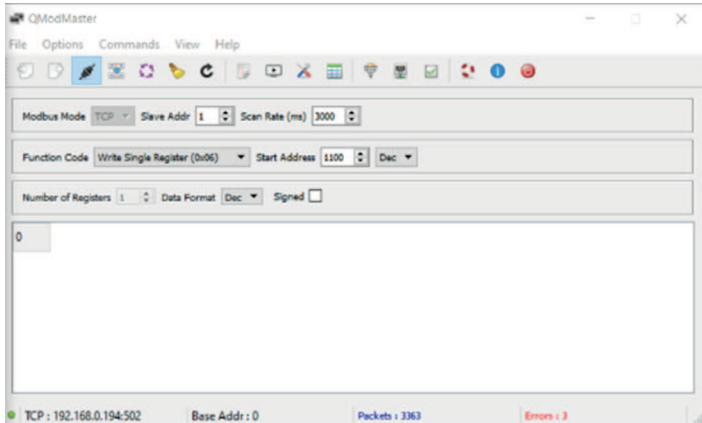
² Virtual digital inputs, instead of K22-K24 for the same functions

E.g. for a heating system high heating curve can be set and then address 1002 can be controlled to obtain the desired supply from the heat pump.

The immersion heater can also be limited/controlled with these registers.

Virtual Digital inputs (Register 1100)

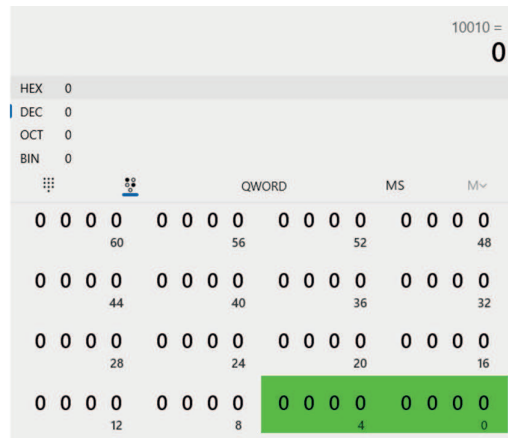
Virtual digital inputs are software-based inputs that simulate physical inputs in a BMS. They are used when physical inputs are not available or cannot be installed. E.g. they can be used for controlling the SmartGrid



1)

PIN	BIT
BMS Di 0	Bit 0
BMS Di 1	Bit 1
BMS Di 2	Bit 2
BMS Di 3	Bit 3
BMS Di 4	Bit 4
BMS Di 5	Bit 5
BMS Di 6	Bit 6
BMS Di 7	Bit 7

If register 1100 is 0 it means that all 8 bits (0 to 7) are open.



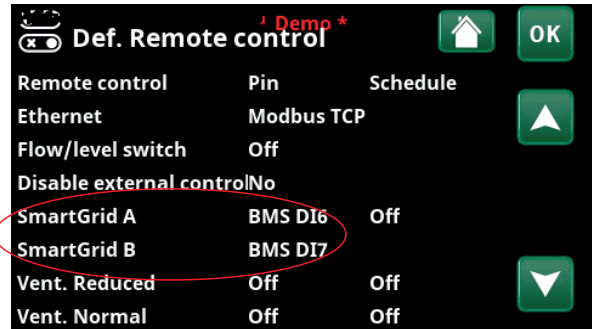
If register 1100 is 255 it means that all 8 bits (0 to 7) are closed.



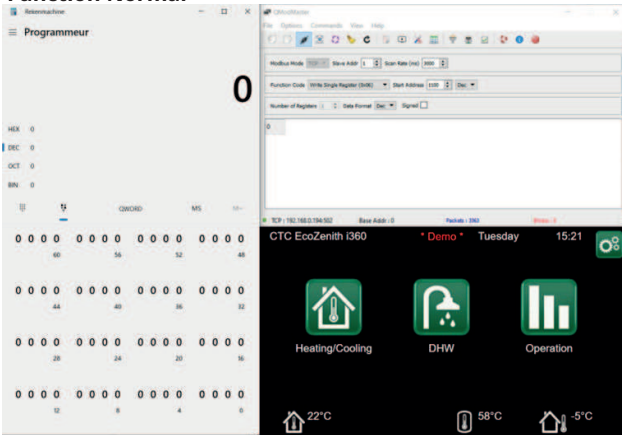
Example with SmartGrid

In this example we use digital input 6 (DI6) for SmartGrid A and digital input 7 (DI7) for SmartGrid B. To make it easy we assume other digital inputs are not used.

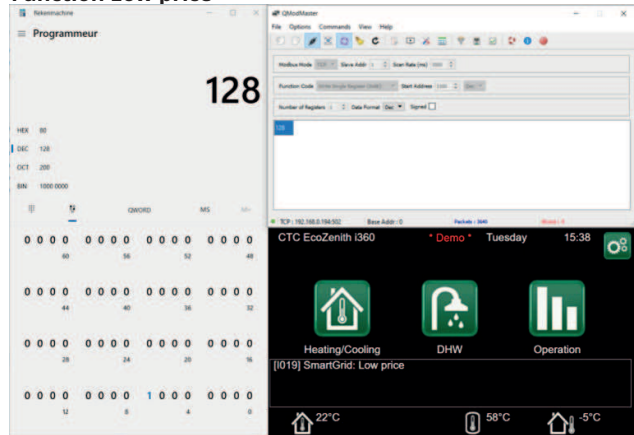
K22 (SG A)	K23 (SG B)	Function
Open	Open	Normal
Open	Closed	Low price
Closed	Closed	Overcapacity
Closed	Open	Blocking



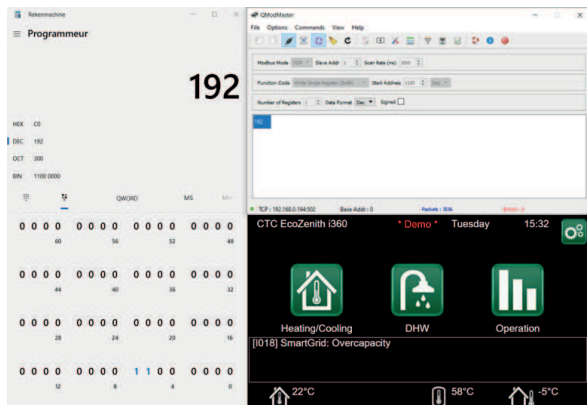
Function Normal



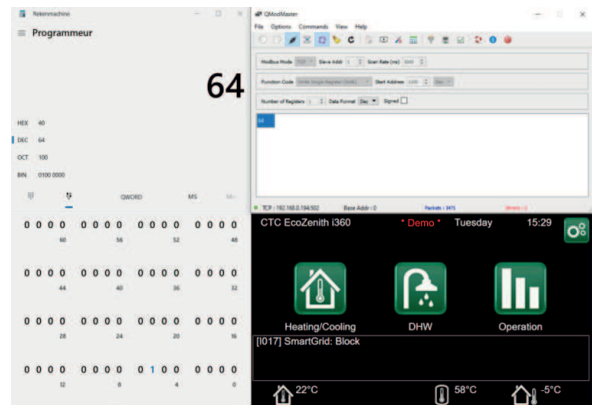
Function Low price



Function Overcapacity



Function Blocking



Remark: the priority for SmartGrid is:

1. Remote control (BMS/contact/...)
2. My uplink
3. Week schedule
4. Setting

If both contacts are open (normal working) there is of course no priority for BMS or contacts.

Alarms and information texts

For the alarms and info texts we work in 2 steps.

- First step (How many alarms/info texts do we have?)
- Second step (What is the exact alarm/info text?)

How many alarms/info texts do we have?

To know how many alarms/info texts you have, you should read register 65133.

You must look at the number in a hexadecimal way to know how many alarms and how many info text you have.

First 2 digits are for the info texts, the second 2 digits are for the alarms.

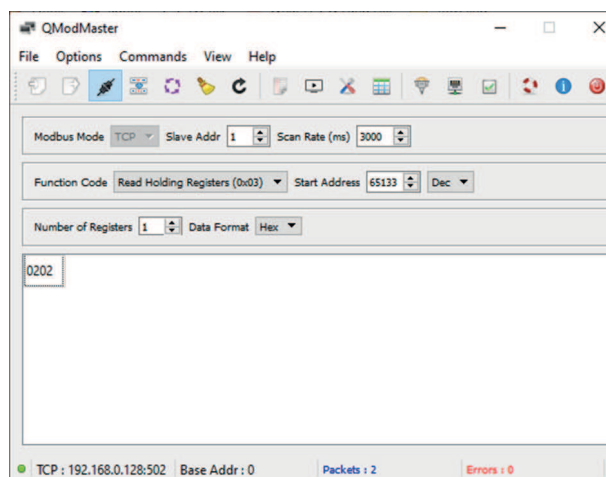
The absolute Max you can have, is FFFF (or 255 info texts and 255 alarms).

An Example:

#0202 (In hex.)

=> 02 = 2 information texts

=> 02 = 2 alarms



What is the exact alarm/ info text?

In the next step you can see the details of the alarms & info texts.

Reading register 65133 must precede this step as it populates the data in the buffers.

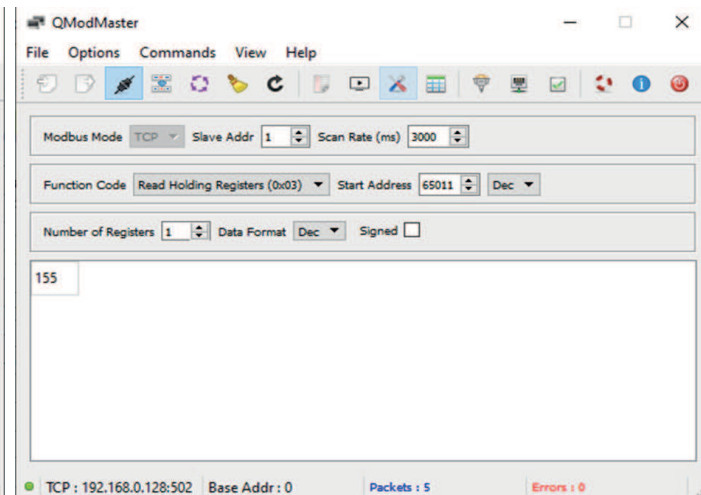
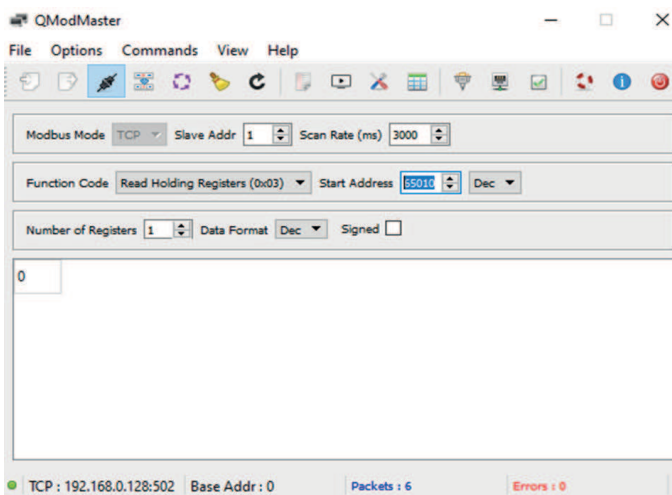
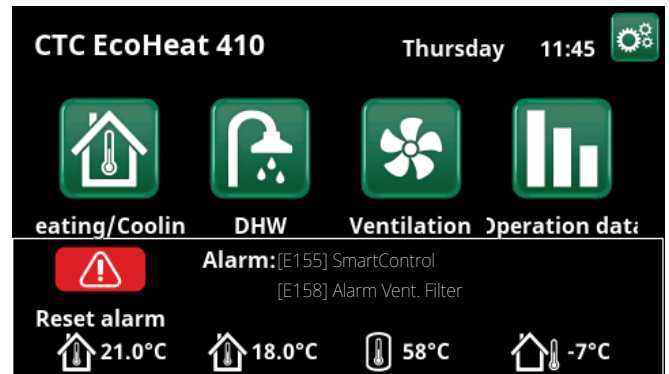
Registers	
Alarms	65010 - 65059
Info texts	65060 - 65069

Register	Alarm number	Explanation
65010	1	HP alarm (HP 1-10). '1' if it is an HP alarm, '0' if it is another alarm e.g., problem with sensor EcoZenith.
65011	1	The actual alarm code
65012	2	HP alarm (HP 1-10). '1' if it is an HP alarm, '0' if it is another alarm e.g., problem with sensor EcoZenith.
65013	2	The actual alarm code
65014	3	HP alarm (HP 1-10). '1' if it is an HP alarm, '0' if it is another alarm e.g., problem with sensor EcoZenith.
65015	3	The actual alarm code
65016	4	...

Register	Alarm number	Explanation
65060	1	HP info text (HP 1-10). '1' if it is an HP info text, '0' if it is another info text e.g., HC1 Heating off.
65061	1	The actual information text code
65062	2	HP info text (HP 1-10). '1' if it is an HP info text, '0' if it is another info text e.g., HC1 Heating off.
65063	2	The actual information text code
65064	3	...

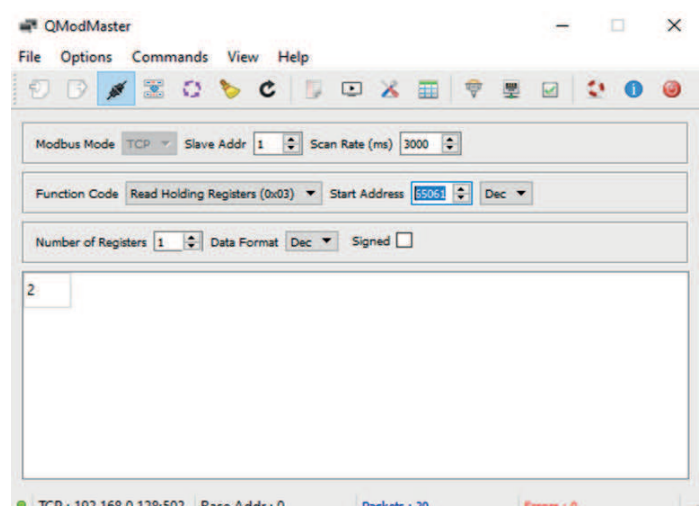
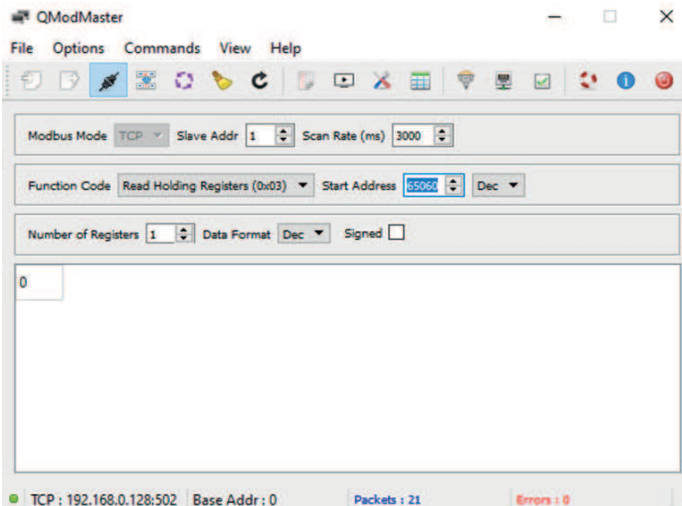
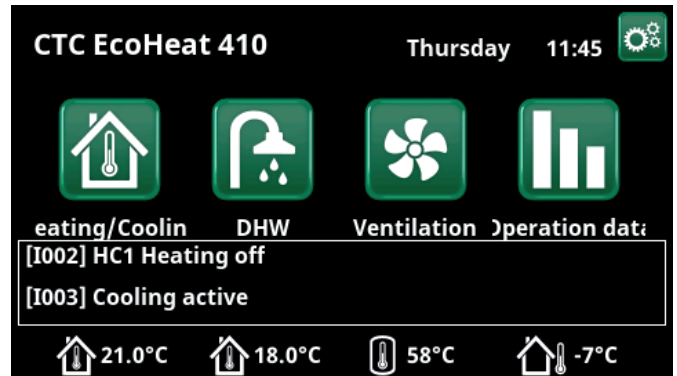
An example for alarms

Register	Alarm number	Value	Explanation
65010	1	0	Not a HP alarm
65011	1	E155	SmartControl
65012	2	0	Not a HP alarm
65013	2	E158	Alarm Vent. Filter
65014	3	0	NA, no 3rd alarm
65015	3	0	N/A



An example for information texts

Register	Alarm number	Value	Explanation
65060	1	0	Not a HP info
65061	1	12	HC1 Heating off
65062	2	0	Not a HP info
65063	2	13	Cooling active
65064	3	0	NA, no 3rd alarm
65065	3	0	N/A



Modbus address register

See the complete BMS list at the end of this document.

Note that not all parameters of the BMS list can be used for heatpump control if your display is not equipped with 3 ports (BMS via TCP/IP).

Modbus address register/complete BMS list

BMS Register	English	Description	R/W	EcoHeat 400	EcoZenith i250	Gsi/CTC GS	EcoZenith i350/ EcoVent i350F	EcoZenith i550	Ecologic	Ecologic S
Value shall be updated before 5 minutes										
1000	Start heatpump		W							x
1001	Setpoint heatpump primary flow		W							x
1002	Maximum RPS		W	x	x	x	x	x	x	x
1003	Maximum power immersion heater upper tank		W	x	x	x	x	x	x	
1004	Maximum power immersion heater lower tank		W		x			x	x	
1005	ElPriceMode, Low = 1, Normal = 2, High = 3		W	x	x	x	x	x	x	
1006	Extra DHW		W	x	x	x	x	x	x	
1007	DHW Mode, 0 = Economy, 1 = Normal, 2 = Comfort		W	x	x	x	x	x	x	
1008	CO2 Start setpoint		W	x	x	x	x	x	x	
1009	Humidity fan start setpoint		W	x	x	x	x	x	x	
1010	Setpoint heat HC1		W	x	x	x	x	x	x	
1011	Setpoint heat HC2		W	x	x	x	x	x	x	
1012	Setpoint heat HC3		W					x	x	
1013	Setpoint heat HC4		W						x	
1014	Setpoint cool		W	x	x	x	x	x	x	
1015	Zone mode HC1, 0 = Off, 1 = Heat, 2 = cool, 3 = auto, 4 = On		W	x	x	x	x	x	x	
1016	Zone mode HC2, 0 = Off, 1 = Heat, 2 = cool, 3 = auto, 4 = On		W	x	x	x	x	x	x	
1017	Zone mode HC3, 0 = Off, 1 = Heat, 2 = cool, 3 = auto, 4 = On		W					x	x	
1018	Zone mode HC4, 0 = Off, 1 = Heat, 2 = cool, 3 = auto, 4 = On		W					x	x	
1019	Zone mode Cool, 0 = Off, 1 = Heat, 2 = cool, 3 = auto, 4 = On		W	x	x	x	x	x	x	
1020	Setpoint pool		W	x	x	x	x	x	x	
1021	Boost ventilation		W	x	x	x	x	x	x	
1022	Vent mode, -1 = Reduced, 0 = Normal, 1 = Forced		W	x	x	x	x	x	x	
1023	Setpoint offset heat HC1		W	x	x	x	x	x	x	
1024	Setpoint offset heat HC2		W	x	x	x	x	x	x	
1025	Setpoint offset heat HC3		W					x	x	
1026	Setpoint offset heat HC4		W					x	x	
1027	Setpoint offset cool		W					x	x	
1028	Setpoint heating buffer tank		W					x	x	
1029	Setpoint flow temp HC1		W	x	x	x	x	x	x	
1030	Setpoint flow temp HC2		W	x	x	x	x	x	x	
1031	Setpoint flow temp HC3		W					x		
1032	Setpoint flow temp HC4		W						x	
1033	Setpoint DHW tank		W	x	x	x	x	x	x	
1100	Virtual digital in Bits: 0 = DI0, 1 = DI1, 2 = DI2, 3 = DI3, 4 = DI4, 5 = DI5, 6 = DI6, 7 = DI7		W	x	x	x	x	x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith i250	Gsi/GS	EcoZenith i350/ EcoVent i350F	EcoZenith i550	EcoPart6xx M Pro	EcoLogic M L	Ecologic S
61500	Hot water mode 0=Ecomony, 1=Normal, 2=Comfort	1	RW	60000	60001	60002	62500	0	1	sDHWMode	x	x	x	x	x	x	x	
61501	Manual Stop temperature hot water	1	RW	60003	60004	60005	62500	1	0,1	sDHWManStopTemp	x	x	x	x	x	x	x	
61502	Setting outlet temperature hot water	1	RW	60006	60007	60008	62500	2	0,1	sDHWTempOut	x	x	x	x				
61503	Extra hot water timer	1	RW	60009	60010	60011	62500	3	0,5	sDHWTimerExtra	x	x	x	x	x	x	x	
61504	Maximum time heating Heat pump	1	RW	60012	60013	60014	62500	4	1	HeatMaxTime	x	x	x	x	x	x	x	
61505	Maximum time hot water	1	RW	60015	60016	60017	62500	5	1	sDHWMaxTime	x	x	x	x	x	x	x	
61506	Minimum RPS hot water	1	RW	60018	60019	60020	62500	6	0,1	sDHWMinRPS		x	x	x				
61507	Minimum RPS Pool	1	RW	60021	60022	60023	62500	7	0,1	sPoolMinRPS		x	x	x				
61508	Number of vacation days timer	1	RW	60024	60025	60026	62500	8	1	sVacationDaysTimer	x	x	x	x	x	x	x	
61509	Heating system 1: setting room temp	1	RW	60027	60028	60029	62500	9	0,1	hs1SetPoint	x	x	x	x	x	x	x	
61510	Heating system 2: setting room temp	1	RW	60030	60031	60032	62500	10	0,1	hs2SetPoint	x	x	x	x	x	x	x	
61511	Heating system 3: setting room temp	1	RW	60033	60034	60035	62500	11	0,1	hs3SetPoint					x	x	x	
61512	Heating system 4: setting room temp	1	RW	60036	60037	60038	62500	12	0,1	hs4SetPoint						x	x	
61513	Heating system 1: Change inclination	1	RW	60039	60040	60041	62500	13	0,1	hs1Inclination	x	x	x	x	x	x	x	x
61514	Heating system 2: Change inclination	1	RW	60042	60043	60044	62500	14	0,1	hs2Inclination	x	x	x	x	x	x	x	
61515	Heating system 3: Change inclination	1	RW	60045	60046	60047	62500	15	0,1	hs3Inclination					x	x	x	
61516	Heating system 4: Change inclination	1	RW	60048	60049	60050	62500	0	0,1	hs4Inclination						x	x	
61517	Room1: Adjustment	1	RW	60051	60052	60053	62500	1	0,1	hs1Adjustment	x	x	x	x	x	x	x	x
61518	Room2: Adjustment	1	RW	60054	60055	60056	62500	2	0,1	hs2Adjustment	x	x	x	x	x	x	x	
61519	Room3: Adjustment	1	RW	60057	60058	60059	62500	3	0,1	hs3Adjustment					x	x	x	
61520	Room4: Adjustment	1	RW	60060	60061	60062	62500	4	0,1	hs4Adjustment						x	x	
61521	Heat pump 1 (A1): Blocked 0=Blocked, 1=Allowed	1	RW	60063	60064	60065	62500	5	1	hp1Blocked	x	x	x	x	x	x	x	x
61522	Heat pump 2 (A2): Blocked 0=Blocked, 1=Allowed	1	RW	60066	60067	60068	62500	6	1	hp2Blocked					x	x	x	
61523	Heat pump 3 (A3): Blocked 0=Blocked, 1=Allowed	1	RW	60069	60070	60071	62500	7	1	hp3Blocked					x	x	x	
61524	Heat pump 4 (A4): Blocked 0=Blocked, 1=Allowed	1	RW	60072	60073	60074	62500	8	1	hp4Blocked						x	x	
61525	Heat pump 5 (A5): Blocked 0=Blocked, 1=Allowed	1	RW	60075	60076	60077	62500	9	1	hp5Blocked						x	x	
61526	Heat pump 6 (A6): Blocked 0=Blocked, 1=Allowed	1	RW	60078	60079	60080	62500	10	1	hp6Blocked						x	x	
61527	Heat pump 7 (A7): Blocked 0=Blocked, 1=Allowed	1	RW	60081	60082	60083	62500	11	1	hp7Blocked						x	x	
61528	Heat pump 8 (A8): Blocked 0=Blocked, 1=Allowed	1	RW	60084	60085	60086	62500	12	1	hp8Blocked						x	x	
61529	Heat pump 9 (A9): Blocked 0=Blocked, 1=Allowed	1	RW	60087	60088	60089	62500	13	1	hp9Blocked						x	x	
61530	Heat pump 10 (A10): Blocked 0=Blocked, 1=Allowed	1	RW	60090	60091	60092	62500	14	1	hp10Blocked						x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith i250	Gsi/GS	EcoZenith i350/ EcoVent i350F	EcoZenith i550	Eco Part6xx M Pro	EcoLogic M L	Ecologic S
61531	Pool: Stop Temp setting	1	RW	60093	60094	60095	62501	15	0,1	poolTempStopSetting	x	x	x	x	x	x	x	
61532	Pool: Maximum time	1	RW	60096	60097	60098	62502	0	1	poolMaxTime			x	x				
61533	Pool: Start difference	1	RW	60099	60100	60101	62502	1	0,1	poolDiffStart	x	x	x	x	x	x	x	
61534	Heating system 1: Max Primary flow ° C	1	RW	60102	60103	60104	62502	2	0,1	hs1PrimaryFlowMax	x	x	x	x	x	x	x	x
61535	Heating system 2: Max Primary flow ° C	1	RW	60105	60106	60107	62502	3	0,1	hs2PrimaryFlowMax	x	x	x		x	x	x	
61536	Heating system 3: Max Primary flow ° C	1	RW	60108	60109	60110	62502	4	0,1	hs3PrimaryFlowMax					x	x	x	
61537	Heating system 4: Max Primary flow ° C	1	RW	60111	60112	60113	62502	5	0,1	hs4PrimaryFlowMax						x	x	
61538	Heating system 1: Min primary flow ° C 140=Off	1	RW	60114	60115	60116	62502	6	0,1	hs1PrimaryFlowMin	x	x	x	x	x	x	x	x
61539	Heating system 2: Min primary flow ° C 140=Off	1	RW	60117	60118	60119	62502	7	0,1	hs2PrimaryFlowMin	x	x	x	x	x	x	x	
61540	Heating system 3: Min primary flow ° C 140=Off	1	RW	60120	60121	60122	62502	8	0,1	hs3PrimaryFlowMin					x	x	x	
61541	Heating system 4: Min primary flow ° C 140=Off	1	RW	60123	60124	60125	62502	9	0,1	hs4PrimaryFlowMin						x	x	
61542	Heating system 1: Heating mode 0=Auto, 1=On, 2=Off	1	RW	60126	60127	60128	62502	10	1	hs1Mode	x	x	x	x	x	x	x	
61543	Heating system 2: Heating mode 0=Auto, 1=On, 2=Off	1	RW	60129	60130	60131	62502	11	1	hs2Mode	x	x	x	x	x	x	x	
61544	Heating system 3: Heating mode 0=Auto, 1=On, 2=Off	1	RW	60132	60133	60134	62502	12	1	hs3Mode					x	x	x	
61545	Heating system 4: Heating mode 0=Auto, 1=On, 2=Off	1	RW	60135	60136	60137	62502	13	1	hs4Mode						x	x	
61546	Heating system 1: Heating off, out ° C	1	RW	60138	60139	60140	62502	14	0,1	hs1HeatingOffTemp	x	x	x	x	x	x	x	
61547	Heating system 2: Heating off, out ° C	1	RW	60141	60142	60143	62502	15	0,1	hs2HeatingOffTemp	x	x	x	x	x	x	x	
61548	Heating system 3: Heating off, out ° C	1	RW	60144	60145	60146	62503	0	0,1	hs3HeatingOffTemp					x	x	x	
61549	Heating system 4: Heating off, out ° C	1	RW	60147	60148	60149	62503	1	0,1	hs4HeatingOffTemp						x	x	
61550	Heating system 1: Heating off time	1	RW	60150	60151	60152	62503	2	1	hs1HeatingOffTime	x	x	x	x	x	x	x	
61551	Heating system 2: Heating off time	1	RW	60153	60154	60155	62503	3	1	hs2HeatingOffTime	x	x	x	x	x	x	x	
61552	Heating system 3: Heating off time	1	RW	60156	60157	60158	62503	4	1	hs3HeatingOffTime					x	x	x	
61553	Heating system 4: Heating off time	1	RW	60159	60160	60161	62503	5	1	hs4HeatingOffTime						x	x	
61554	Heating system 1: Room temp night reduction	1	RW	60162	60163	60164	62503	6	0,1	hs1ReduceTempNight	x	x	x	x	x	x	x	
61555	Heating system 2: Room temp night reduction	1	RW	60165	60166	60167	62503	7	0,1	hs2ReduceTempNight	x	x	x	x	x	x	x	
61556	Heating system 3: Room temp night reduction	1	RW	60168	60169	60170	62503	8	0,1	hs3ReduceTempNight					x	x	x	
61557	Heating system 4: Room temp night reduction	1	RW	60171	60172	60173	62503	9	0,1	hs4ReduceTempNight						x	x	
61558	Heating system 1: Primary flow Night reduction	1	RW	60174	60175	60176	62503	10	0,1	hs1PrimaryFlowReduceNight	x	x	x	x	x	x	x	
61559	Heating system 2: Primary flow Night reduction	1	RW	60177	60178	60179	62503	11	0,1	hs2PrimaryFlowReduceNight	x	x	x	x	x	x	x	
61560	Heating system 3: Primary flow Night reduction	1	RW	60180	60181	60182	62503	12	0,1	hs3PrimaryFlowReduceNight					x	x	x	
61561	Heating system 4: Primary flow Night reduction	1	RW	60183	60184	60185	62503	13	0,1	hs4PrimaryFlowReduceNight						x	x	
61562	Heating system 1: Outdoor temp night reduction	1	RW	60186	60187	60188	62503	14	0,1	hs1NightReduceOffTemp	x	x	x	x	x	x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoZenith 1350/ EcoVent 1350F	EcoZenith 1550	Eco Partéxx M Pro	Ecologic M L	Ecologic S
61563	Heating system 2: Outdoor temp night reduction	1	RW	60189	60190	60191	62503	15	0,1	hs2NightReduceOffTemp	x	x	x	x	x	x	x	
61564	Heating system 3: Outdoor temp night reduction	1	RW	60192	60193	60194	62504	0	0,1	hs3NightReduceOffTemp					x	x	x	
61565	Heating system 4: Outdoor temp night reduction	1	RW	60195	60196	60197	62504	1	0,1	hs4NightReduceOffTemp						x	x	
61566	Heating system 1: Alarm low room temperature	1	RW	60198	60199	60200	62504	2	0,1	hs1AlarmLowRoomTemp	x	x	x	x	x	x	x	
61567	Heating system 2: Alarm low room temperature	1	RW	60201	60202	60203	62504	3	0,1	hs2AlarmLowRoomTemp	x	x	x	x	x	x	x	
61568	Heating system 3: Alarm low room temperature	1	RW	60204	60205	60206	62504	4	0,1	hs3AlarmLowRoomTemp					x	x	x	
61569	Heating system 4: Alarm low room temperature	1	RW	60207	60208	60209	62504	5	0,1	hs4AlarmLowRoomTemp						x	x	
61570	Radiator pump setting %	1	RW	60210	60211	60212	62504	6	1	hsChargePumpSetting			x	x	x	x	x	
61571	Start at degree minute	1	RW	60213	60214	60215	62504	7	1	hpDMStart			x	x	x	x	x	
61572	Heat pump 1 (A1): Max RPS	1	RW	60216	60217	60218	62504	8	0,1	hp1RPSMax			x	x	x	x	x	x
61573	Heat pump 2 (A2): Max RPS	1	RW	60219	60220	60221	62504	9	0,1	hp2RPSMax					x	x	x	
61574	Heat pump 3 (A3): Max RPS	1	RW	60222	60223	60224	62504	10	0,1	hp3RPSMax					x	x	x	
61575	Heat pump 4 (A4): Max RPS	1	RW	60225	60226	60227	62504	11	0,1	hp4RPSMax						x	x	
61576	Heat pump 5 (A5): Max RPS	1	RW	60228	60229	60230	62504	12	0,1	hp5RPSMax						x	x	
61577	Heat pump 6 (A6): Max RPS	1	RW	60231	60232	60233	62504	13	0,1	hp6RPSMax						x	x	
61578	Heat pump 7 (A7): Max RPS	1	RW	60234	60235	60236	62504	14	0,1	hp7RPSMax						x	x	
61579	Heat pump 8 (A8): Max RPS	1	RW	60237	60238	60239	62504	15	0,1	hp8RPSMax						x	x	
61580	Heat pump 9 (A9): Max RPS	1	RW	60240	60241	60242	62505	0	0,1	hp9RPSMax						x	x	
61581	Heat pump 10 (A10): Max RPS	1	RW	60243	60244	60245	62505	1	0,1	hp10RPSMax						x	x	
61582	E1: Start add heat, degree minute	1	RW	60246	60247	60248	62505	2	1	exb1DMStart				x	x	x	x	
61583	External boiler diff	1	RW	60249	60250	60251	62505	3	0,1	exb1Diff???				x	x			
61584	Blocking additional heat outdoor temp °C	1	RW	60252	60253	60254	62505	4	0,1	exbBlockOutTemp				x		x	x	
61585	Boiler, open mixing valve °C	1	RW	60255	60256	60257	62505	5	0,1	exbBoilerShuntTemp				x	x	x	x	
61586	Delay stop external boiler	1	RW	60258	60259	60260	62505	6	1	exbBoilerDelayStop				x	x			
61587	Ext boiler mode 0=Auto, 1=On, 2=Off	1	RW	60261	60262	60263	62505	7	1	exbMode				x				
61588	EHS: open shunt degrees	1	RW	60264	60265	60266	62505	8	0,1	ehsStartDegrees			x	x				
61589	EHS: start / stop diff	1	RW	60267	60268	60269	62505	9	1	ehsDiffStartStop			x	x				
61590	Max immersion heater kW / Lower	1	RW	60270	60271	60272	62505	10	0,1	elhMaxPower		x	x	x	x	x	x	
61591	Max immersion heater DHW kW / Upper	1	RW	60273	60274	60275	62505	11	0,1	elhDHWMaxPower	x	x	x	x	x	x	x	
61602	Heating system 1: Holiday reduction	1	RW	60306	60307	60308	62506	6	0,1	hs1ReduceTempVac	x	x	x	x	x	x	x	
61603	Heating system 2: Holiday reduction	1	RW	60309	60310	60311	62506	7	0,1	hs2ReduceTempVac	x	x	x	x	x	x	x	
61604	Heating system 3: Holiday reduction	1	RW	60312	60313	60314	62506	8	0,1	hs3ReduceTempVac					x	x	x	
61605	Heating system 4: Holiday reduction	1	RW	60315	60316	60317	62506	9	0,1	hs4ReduceTempVac						x	x	
61606	Heating system 1: Primary flow Holiday reduction	1	RW	60318	60319	60320	62506	10	0,1	hs1PrimaryFlowReduceVac	x	x	x	x	x	x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoZenith 1350/ EcoVent 1350F	EcoZenith i550	Eco Part6xx M Pro	Ecologic M L	Ecologic S
61607	Heating system 2: Primary flow Holiday reduction	1	RW	60321	60322	60323	62506	11	0,1	hs2PrimaryFlowReduceVac	x	x	x	x	x	x	x	
61608	Heating system 3: Primary flow Holiday reduction	1	RW	60324	60325	60326	62506	12	0,1	hs3PrimaryFlowReduceVac					x	x	x	
61609	Heating system 4: Primary flow Holiday reduction	1	RW	60327	60328	60329	62506	13	0,1	hs4PrimaryFlowReduceVac						x	x	
61610	Heat pump : Diff Heat pump , degree minute	1	RW	60330	60331	60332	62506	14	1	hpXDMDiff						x	x	
61611	Heat pump : Delay between Heat pump	1	RW	60333	60334	60335	62506	15	1	hpXDMDelay					x	x	x	
61612	E1: Diff add heat, degree minute	1	RW	60336	60337	60338	62507	0	1	ex1DMDiff						x	x	
61613	E2: Start 0-10V degree minute	1	RW	60339	60340	60341	62507	1	1	ex2DMStart						x	x	
61614	E2: Diff 0-10V, degree minute	1	RW	60342	60343	60344	62507	2	1	ex2DMDiff						x	x	
61615	E3: Start EcoMiniEI, degree minute	1	RW	60345	60346	60347	62507	3	1	ex3DMStart						x	x	
61616	E3: Number of steps heating	1	RW	60348	60349	60350	62507	4	1	ex3StepsHeat						x	x	
61617	E3: Number of steps DHW	1	RW	60351	60352	60353	62507	5	1	ex3StepsDHW						x	x	
61618	E3: Diff step EcoMiniEI	1	RW	60354	60355	60356	62507	6	1	ex3EMEDiffSteps						x	x	
61619	E1: Delay add heat E1	1	RW	60357	60358	60359	62507	7	1	ex1Delay						x	x	
61620	E2: Delay add heat 0-10V	1	RW	60360	60361	60362	62507	8	1	ex2Delay						x	x	
61621	E2: Diff 0-10V delay	1	RW	60363	60364	60365	62507	9	1	ex2DiffDelay						x	x	
61622	E3: Delay EcoMiniEI	1	RW	60366	60367	60368	62507	10	1	ex3EMEDelay						x	x	
61623	E3: Delay EcoMiniEI step	1	RW	60369	60370	60371	62507	11	1	ex3EMEDelaySteps						x	x	
61624	Cooling: Primary flow at the outdoor temperature +20 °C	1	RW	60372	60373	60374	62507	12	1	coolPrimaryOut20						x	x	
61625	Cooling: Primary flow at the outdoor temperature +40 °C	1	RW	60375	60376	60377	62507	13	1	coolPrimaryOut40						x	x	
61626	Cooling: Min flow temperature	1	RW	60378	60379	60380	62507	14	1	coolPrimaryMin						x	x	
61627		1	RW	60381	60382	60383	62507	15	1									
61628		1	RW	60384	60385	60386	62508	0	1									
61629	Delay mixing valve setting 241=Off	1	RW	60387	60388	60389	62508	1	1	sMixValveDelaySet	x	x			x			
61630	Wood boiler start flue gas 490=Off	1	RW	60390	60391	60392	62508	2	0,1	woodFlueGasTempStart					x	x	x	
61631	Wood boiler start boiler temperature	1	RW	60393	60394	60395	62508	3	0,1	woodBoilerTempStart					x			
61632	Wood boiler hysteresis	1	RW	60396	60397	60398	62508	4	0,1	woodHysteresis					x			
61633	Boiler lower °C	1	RW	60399	60400	60401	62508	5	0,1	elhLowerSetp		x			x			
61634	Boiler upper °C	1	RW	60402	60403	60404	62508	6	0,1	elhUpperSetp	x	x						
61635	Boiler add heat °C	1	RW	60405	60406	60407	62508	7	0,1	elhAddHeatSetp	x	x						
61636	Boiler DHW °C	1	RW	60408	60409	60410	62508	8	0,1	elhDHWAddHeatSetp	x	x						
61637	Diff thermostat start temp diff	1	RW	60411	60412	60413	62508	9	0,1	dthDiffTempStart	x	x	x	x				
61638	Diff thermostat stop temp diff	1	RW	60414	60415	60416	62508	10	0,1	dthDiffTempStop	x	x	x	x				
61639	Diff thermostat charge temperature	1	RW	60417	60418	60419	62508	11	0,1	dthChargeTemp	x	x	x	x				
61640	Ecologic / EcoZenith i550: Solar deltaT max Other: Solar start charge difference	1	RW	60420	60421	60422	62508	12	0,1	sunDiffTempStart	x	x	x	x	x	x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith i250	Gsi/GS	EcoZenith i350/ EcoVent i350F	EcoZenith i550	Eco Part6xx M Pro	Ecologic M L	Ecologic S
61641	EcoLogic / EcoZenith i550: Solar deltaT min Other: Solar stop charge difference	1	RW	60423	60424	60425	62508	13	0,1	sunDiffTempStop	x	x	x	x	x	x	x	
61642	Solar charge pump min	1	RW	60426	60427	60428	62508	14	1	sunChargePumpMin	x	x	x	x	x	x	x	
61643	EcoLogic / EcoZenith i550: Solar deltaT max borehole Other: Solar borehole charge start diff	1	RW	60429	60430	60431	62508	15	1	sunDiffDrillTempStart	x	x	x	x	x	x	x	
61644	EcoLogic / EcoZenith i550: Solar deltaT min borehole Other: Solar borehole charge stop difference	1	RW	60432	60433	60434	62509	0	1	sunDiffDrillTempStop	x	x	x	x	x	x	x	
61645	EcoHeat 400 / EcoZenith i250: Solar H-tank charge temp GSi/EcoZenith i350: Solar EHS-tank harge temp	1	RW	60435	60436	60437	62509	1	1	sunMainTankChargeTemp	x	x	x	x				
61646	Solar: X-tank charge temp	1	RW	60438	60439	60440	62509	2	1	sunExtraTankChargeTemp	x	x	x	x				
61647	Solar: Eco-tank charge temp	1	RW	60441	60442	60443	62509	3	1	sunEcoTankChargeTemp	x	x	x	x				
61648	EcoHeat 400 / EcoZenith i250: Solar charge H-tank start difference GSi/EcoZenith i350: Solar EHS-tank charge start difference	1	RW	60444	60445	60446	62509	4	1	sunMainTankDiffTempStart	x	x	x	x				
61649	EcoHeat 400 / EcoZenith i250: Solar H-tank charge stop difference GSi/EcoZenith i350: Solar EHS-tank charge stop difference	1	RW	60447	60448	60449	62509	5	1	sunMainTankDiffTempStop	x	x	x	x				
61650	EcoHeat 400 / EcoZenith i250: Solar H-tank charge stop temperature GSi/EcoZenith i350: Solar EHS-tank charge stop temperature	1	RW	60450	60451	60452	62509	6	1	sunMainTankTempStop	x	x	x	x				
61651	Wood boiler buffer tank delay recharge time	1	RW	60453	60454	60455	62509	7	1	woodTankReturnDelay						x		
61652	Setpoint for upper tank when el. heater is used	1	RW	60456	60457	60458	62509	8	0,1	sElHeaterTankUpperSetp						x		
61653	Capacity start point for charging DHW	1	RW	60459	60460	60461	62509	9	0,1	sDHWCapacityStart			x	x				
61654	Lower temp sensor start point for charging DHW	1	RW	60462	60463	60464	62509	10	0,1	sDHWLowerStartTemp			x	x				
61655	Ventilation mode	1	RW	60465	60466	60467	62509	11	1	sVentilationMode	x	x	x	x	x	x	x	
61656	Turn night cooling on or off	1	RW	60468	60469	60470	62509	12	1	sVentNightcoolValue	x	x	x	x	x	x	x	
61657	Ventilation away mode	1	RW	60471	60472	60473	62509	13	1	sVentAwayMode	x	x	x	x	x	x	x	
61658	Pool Enable	1	RW	60474	60475	60476	62509	14	1		x	x	x	x	x	x	x	
61659	Room temp cooling	1	RW	60477	60478	60479	62509	15	0,1		x	x	x	x		x	x	
61660	Cooling permitted from outdoor temp °C	1	RW	60480	60481	60482	62510	0	0,1					x		x	x	
61661	Cooling delay active (minutes)	1	RW	60483	60484	60485	62510	1	1		x	x	x	x	x	x	x	
61662	Delay cooling from heating off (minutes)	1	RW	60486	60487	60488	62510	2	1					x		x	x	
61663	Cooling start delay (minutes)	1	RW	60489	60490	60491	62510	3	1		x	x	x	x	x	x	x	
61664	Cooling diff calc delay (minutes)	1	RW	60492	60493	60494	62510	4	1					x		x	x	
61665	Primary flow temp at outdoor +20 °C	1	RW	60495	60496	60497	62510	5	0,1					x		x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoVent 1350F	EcoZenith 1350/	EcoZenith 1550	Eco Partexx M Pro	Ecologic M L	Ecologic S
61666	Primary flow temp at outdoor +40 °C	1	RW	60498	60499	60500	62510	6	0,1						x			x	x
61667	Primary flow diff at outdoor +20 °C	1	RW	60501	60502	60503	62510	7	0,1						x			x	x
61668	Primary flow diff at outdoor +40 °C	1	RW	60504	60505	60506	62510	8	0,1						x			x	x
61669	Cooling max time HP active (minutes)	1	RW	60507	60508	60509	62510	9	1						x				
61670	Cooling HP Charge pump speed	1	RW	60510	60511	60512	62510	10	1						x				
61671	Heating program HC1 0 = Economy, 1 = Normal, 2 = Comfort, 3 = Custom	1	RW	60513	60514	60515	62510	11	1		x	x	x		x	x	x	x	x
61672	Heating program HC2 0 = Economy, 1 = Normal, 2 = Comfort, 3 = Custom	1	RW	60516	60517	60518	62510	12	1		x	x	x		x	x	x	x	x
61673	Heating program HC3 0 = Economy, 1 = Normal, 2 = Comfort, 3 = Custom	1	RW	60519	60520	60521	62510	13	1							x	x	x	
61674	Heating program HC4 0 = Economy, 1 = Normal, 2 = Comfort, 3 = Custom	1	RW	60522	60523	60524	62510	14	1								x	x	
61675	HC1 Heating curve point 1 x-value (outside temp)	1	RW	60525	60526	60527	62510	15	1		x	x	x		x	x	x	x	x
61676	HC1 Heating curve point 1 y-value (setp temp)	1	RW	60528	60529	60530	62511	0	1		x	x	x		x	x	x	x	x
61677	HC1 Heating curve point 2 x-value (outside temp)	1	RW	60531	60532	60533	62511	1	1		x	x	x		x	x	x	x	x
61678	HC1 Heating curve point 2 y-value (setp temp)	1	RW	60534	60535	60536	62511	2	1		x	x	x		x	x	x	x	x
61679	HC1 Heating curve point 3 x-value (outside temp)	1	RW	60537	60538	60539	62511	3	1		x	x	x		x	x	x	x	x
61680	HC1 Heating curve point 3 y-value (setp temp)	1	RW	60540	60541	60542	62511	4	1		x	x	x		x	x	x	x	x
61681	HC1 Heating curve point 4 x-value (outside temp)	1	RW	60543	60544	60545	62511	5	1		x	x	x		x	x	x	x	x
61682	HC1 Heating curve point 4 y-value (setp temp)	1	RW	60546	60547	60548	62511	6	1		x	x	x		x	x	x	x	x
61683	HC1 Heating curve point 5 x-value (outside temp)	1	RW	60549	60550	60551	62511	7	1		x	x	x		x	x	x	x	x
61684	HC1 Heating curve point 5 y-value (setp temp)	1	RW	60552	60553	60554	62511	8	1		x	x	x		x	x	x	x	x
61685	HC2 Heating curve point 1 x-value (outside temp)	1	RW	60555	60556	60557	62511	9	1		x	x	x		x	x	x	x	
61686	HC2 Heating curve point 1 y-value (setp temp)	1	RW	60558	60559	60560	62511	10	1		x	x	x		x	x	x	x	
61687	HC2 Heating curve point 2 x-value (outside temp)	1	RW	60561	60562	60563	62511	11	1		x	x	x		x	x	x	x	
61688	HC2 Heating curve point 2 y-value (setp temp)	1	RW	60564	60565	60566	62511	12	1		x	x	x		x	x	x	x	
61689	HC2 Heating curve point 3 x-value (outside temp)	1	RW	60567	60568	60569	62511	13	1		x	x	x		x	x	x	x	
61690	HC2 Heating curve point 3 y-value (setp temp)	1	RW	60570	60571	60572	62511	14	1		x	x	x		x	x	x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	GSI/GS	EcoZenith 1350/ EcoVent 1350F	EcoZenith 1550	Eco Part6xx MI Pro	Ecologic M L	Ecologic S
61691	HC2 Heating curve point 4 x-value (outside temp)	1	RW	60573	60574	60575	62511	15	1		x	x	x	x	x	x	x	
61692	HC2 Heating curve point 4 y-value (setp temp)	1	RW	60576	60577	60578	62512	0	1		x	x	x	x	x	x	x	
61693	HC2 Heating curve point 5 x-value (outside temp)	1	RW	60579	60580	60581	62512	1	1		x	x	x	x	x	x	x	
61694	HC2 Heating curve point 5 y-value (setp temp)	1	RW	60582	60583	60584	62512	2	1		x	x	x	x	x	x	x	
61695	HC3 Heating curve point 1 x-value (outside temp)	1	RW	60585	60586	60587	62512	3	1						x	x	x	
61696	HC3 Heating curve point 1 y-value (setp temp)	1	RW	60588	60589	60590	62512	4	1						x	x	x	
61697	HC3 Heating curve point 2 x-value (outside temp)	1	RW	60591	60592	60593	62512	5	1						x	x	x	
61698	HC3 Heating curve point 2 y-value (setp temp)	1	RW	60594	60595	60596	62512	6	1						x	x	x	
61699	HC3 Heating curve point 3 x-value (outside temp)	1	RW	60597	60598	60599	62512	7	1						x	x	x	
61700	HC3 Heating curve point 3 y-value (setp temp)	1	RW	60600	60601	60602	62512	8	1						x	x	x	
61701	HC3 Heating curve point 4 x-value (outside temp)	1	RW	60603	60604	60605	62512	9	1						x	x	x	
61702	HC3 Heating curve point 4 y-value (setp temp)	1	RW	60606	60607	60608	62512	10	1						x	x	x	
61703	HC3 Heating curve point 5 x-value (outside temp)	1	RW	60609	60610	60611	62512	11	1						x	x	x	
61704	HC3 Heating curve point 5 y-value (setp temp)	1	RW	60612	60613	60614	62512	12	1						x	x	x	
61705	HC4 Heating curve point 1 x-value (outside temp)	1	RW	60615	60616	60617	62512	13	1							x	x	
61706	HC4 Heating curve point 1 y-value (setp temp)	1	RW	60618	60619	60620	62512	14	1							x	x	
61707	HC4 Heating curve point 2 x-value (outside temp)	1	RW	60621	60622	60623	62512	15	1							x	x	
61708	HC4 Heating curve point 2 y-value (setp temp)	1	RW	60624	60625	60626	62513	0	1							x	x	
61709	HC4 Heating curve point 3 x-value (outside temp)	1	RW	60627	60628	60629	62513	1	1							x	x	
61710	HC4 Heating curve point 3 y-value (setp temp)	1	RW	60630	60631	60632	62513	2	1							x	x	
61711	HC4 Heating curve point 4 x-value (outside temp)	1	RW	60633	60634	60635	62513	3	1							x	x	
61712	HC4 Heating curve point 4 y-value (setp temp)	1	RW	60636	60637	60638	62513	4	1							x	x	
61713	HC4 Heating curve point 5 x-value (outside temp)	1	RW	60639	60640	60641	62513	5	1							x	x	
61714	HC4 Heating curve point 5 y-value (setp temp)	1	RW	60642	60643	60644	62513	6	1							x	x	
61715	Cooling curve point 1 x-value (outside temp)	1	RW	60645	60646	60647	62513	7	1					x	x	x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoZenith 1350/ EcoVent 1350F	EcoZenith 1550	Eco Part6xx M Pro	Ecologic M L	Ecologic S
61716	Cooling curve point 1 y-value (setp temp)	1	RW	60648	60649	60650	62513	8	1					x	x	x	x	
61717	Cooling curve point 2 x-value (outside temp)	1	RW	60651	60652	60653	62513	9	1					x	x	x	x	
61718	Cooling curve point 2 y-value (setp temp)	1	RW	60654	60655	60656	62513	10	1					x	x	x	x	
61719	Cooling curve point 3 x-value (outside temp)	1	RW	60657	60658	60659	62513	11	1					x	x	x	x	
61720	Cooling curve point 3 y-value (setp temp)	1	RW	60660	60661	60662	62513	12	1					x	x	x	x	
61721	Cooling curve point 4 x-value (outside temp)	1	RW	60663	60664	60665	62513	13	1					x	x	x	x	
61722	Cooling curve point 4 y-value (setp temp)	1	RW	60666	60667	60668	62513	14	1					x	x	x	x	
61723	Cooling curve point 5 x-value (outside temp)	1	RW	60669	60670	60671	62513	15	1					x	x	x	x	
61724	Cooling curve point 5 y-value (setp temp)	1	RW	60672	60673	60674	62514	0	1					x	x	x	x	
61725	Heating system 1: Heating on time	1	RW	60675	60676	60677	62514	1	1		x	x	x	x	x	x	x	
61726	Heating system 2: Heating on time	1	RW	60678	60679	60680	62514	2	1		x	x	x	x	x	x	x	
61727	Heating system 3: Heating on time	1	RW	60681	60682	60683	62514	3	1		x	x	x	x	x	x	x	
61728	Heating system 4: Heating on time	1	RW	60684	60685	60686	62514	4	1		x	x	x	x	x	x	x	
62000	Outdoor temperature	1	R				62531	4	0,1	sOutsideTemp	x	x	x	x	x	x	x	
62001	Stop temperature DHW	1	R				62531	5	0,1	sStopTempDHW	x	x	x	x	x	x	x	
62002	Setpoint outlet temperature DHW	1	R				62531	6	1	sSetPDHW			x	x				
62003	Hot water temperature	1	R				62531	7	0,1	sDHWTemp			x	x				
62004	Delay mixing valve	1	R				62531	8	1	sMixValveDelay	x	x			x			
62005	Status 0: HP upper, 1: HP lower, 2: Add 3: HP + Add, 4: HC, 5: DHW 6: Pool, 7: Off, 8: Heating mix 9: Wood, 10: DHW/HC, 11: Cooling, 12: Swap	1	R				62531	9	1	sStatus	x	x	x	x	x	x	x	
62006	Radiator Water	1	R				62531	10	0,1	sRadiatorTemp	x	x			x	x	x	
62007	Heating system 1: Temperature setpoint primary flow	1	R				62531	11	0,1	hs1Temp	x	x	x	x	x	x	x	x
62008	Heating system 2: Temperature setpoint primary flow	1	R				62531	12	0,1	hs2Temp	x	x	x	x	x	x	x	
62009	Heating system 3: Temperature setpoint primary flow	1	R				62531	13	0,1	hs3Temp					x	x	x	
62010	Heating system 4: Temperature setpoint primary flow	1	R				62531	14	0,1	hs4Temp						x	x	
62011	Heating system 1: Primary flow temperature	1	R				62531	15	0,1	hs1PrimaryFlow	x	x	x	x	x	x	x	x
62012	Heating system 2: Primary flow temperature	1	R				62532	0	0,1	hs2PrimaryFlow	x	x	x	x	x	x	x	
62013	Heating system 3: Primary flow temperature	1	R				62532	1	0,1	hs3PrimaryFlow					x	x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoVent 1350F	EcoZenith 1350/	EcoZenith 1550	Eco Part6xx M Pro	Ecologic M L	Ecologic S
62014	Heating system 4: Primary flow temperature	1	R				62532	2	0,1	hs4PrimaryFlow								x	x
62015	Return temp	1	R				62532	3	0,1	sReturnTemp	x	x	x	x	x	x	x	x	x
62016	DHW circulation	1	R				62532	4	1	sDHWpump			x	x	x	x	x	x	x
62017	Heat pump 1 (A1): Status 0=Compressor_off_start_delay, 1=Compressor_off_redy_to_start 2=Compressor_wait_until_flow, 3=Comperssor_on_heating 4=Defrost_active, 5=Compressor_on_cooling 6=Compressor_off_blocked, 7=Compressor_off_alarm 8=Function_test., 30=HP not defined 31=Compressor not enabled, 32=Communication error 33=Charge dhw	1	R				62532	5	1	hp1Status	x	x	x	x	x	x	x	x	x
62018	Heat pump 2 (A2) status 0=Compressor_off_start_delay, 1=Compressor_off_redy_to_start 2=Compressor_wait_until_flow, 3=Comperssor_on_heating 4=Defrost_active, 5=Compressor_on_cooling 6=Compressor_off_blocked, 7=Compressor_off_alarm 8=Function_test., 30=HP not defined 31=Compressor not enabled, 32=Communication error 33=Charge dhw	1	R				62532	6	1	hp2Status						x	x	x	
62019	Heat pump 3 (A3) Status 0=Compressor_off_start_delay, 1=Compressor_off_redy_to_start 2=Compressor_wait_until_flow, 3=Comperssor_on_heating 4=Defrost_active, 5=Compressor_on_cooling 6=Compressor_off_blocked, 7=Compressor_off_alarm 8=Function_test., 30=HP not defined 31=Compressor not enabled, 32=Communication error 33=Charge dhw	1	R				62532	7	1	hp3Status						x	x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gst/GS	EcoVent i350F	EcoZenith i350/	EcoZenith i350	Eco Partexx M Pro	Ecologic M L	Ecologic S	
62020	Heat pump 4 (A4) Status 0=Compressor_off_start_delay, 1=Compressor_off_redy_to_start 2=Compressor_wait_until_flow, 3=Comperssor_on_heating 4=Defrost_active, 5=Compressor_ on_cooling 6=Compressor_off_blocked, 7=Compressor_off_alarm 8=Function_test., 30=HP not defined 31=Compressor not enabled, 32=Communication error 33=Charge dhw	1	R				62532	8	1	hp4Status								x	x	
62021	Heat pump 5 (A5) Status 0=Compressor_off_start_delay, 1=Compressor_off_redy_to_start 2=Compressor_wait_until_flow, 3=Comperssor_on_heating 4=Defrost_active, 5=Compressor_ on_cooling 6=Compressor_off_blocked, 7=Compressor_off_alarm 8=Function_test., 30=HP not defined 31=Compressor not enabled, 32=Communication error 33=Charge dhw	1	R				62532	9	1	hp5Status								x	x	
62022	Heat pump 6 (A6) Status 0=Compressor_off_start_delay, 1=Compressor_off_redy_to_start 2=Compressor_wait_until_flow, 3=Comperssor_on_heating 4=Defrost_active, 5=Compressor_ on_cooling 6=Compressor_off_blocked, 7=Compressor_off_alarm 8=Function_test., 30=HP not defined 31=Compressor not enabled, 32=Communication error 33=Charge dhw	1	R				62532	10	1	hp6Status								x	x	
62023	Heat pump 7 (A7) Status 0=Compressor_off_start_delay, 1=Compressor_off_redy_to_start 2=Compressor_wait_until_flow, 3=Comperssor_on_heating 4=Defrost_active, 5=Compressor_ on_cooling 6=Compressor_off_blocked, 7=Compressor_off_alarm 8=Function_test., 30=HP not defined 31=Compressor not enabled, 32=Communication error 33=Charge dhw	1	R				62532	11	1	hp7Status								x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoZenith 1350/ EcoVent 1350F	EcoZenith 1550	Eco Part6xx M Pro	Ecologic M L	Ecologic S	
62024	Heat pump 8 (A8) Status 0=Compressor_off_start_delay, 1=Compressor_off_redy_to_start 2=Compressor_wait_until_flow, 3=Comperssor_on_heating 4=Defrost_active, 5=Compressor_ on_cooling 6=Compressor_off_blocked, 7=Compressor_off_alarm 8=Function_test., 30=HP not defined 31=Compressor not enabled, 32=Communication error 33=Charge dhw	1	R				62532	12	1	hp8Status							x	x	
62025	Heat pump 9 (A9) Status 0=Compressor_off_start_delay, 1=Compressor_off_redy_to_start 2=Compressor_wait_until_flow, 3=Comperssor_on_heating 4=Defrost_active, 5=Compressor_ on_cooling 6=Compressor_off_blocked, 7=Compressor_off_alarm 8=Function_test., 30=HP not defined 31=Compressor not enabled, 32=Communication error 33=Charge dhw	1	R				62532	13	1	hp9Status							x	x	
62026	Heat pump 10 (A10): Status 0=Compressor_off_start_delay, 1=Compressor_off_redy_to_start 2=Compressor_wait_until_flow, 3=Comperssor_on_heating 4=Defrost_active, 5=Compressor_ on_cooling 6=Compressor_off_blocked, 7=Compressor_off_alarm 8=Function_test., 30=HP not defined 31=Compressor not enabled, 32=Communication error 33=Charge dhw	1	R				62532	14	1	hp10Status							x	x	
62027	Heat pump 1 (A1) HP in	1	R				62532	15	0,1	hp1TempIn	x	x	x	x	x	x	x	x	x
62028	Heat pump 2 (A2) HP in	1	R				62533	0	0,1	hp2TempIn					x	x	x		
62029	Heat pump 3 (A3) HP in	1	R				62533	1	0,1	hp3TempIn					x	x	x		
62030	Heat pump 4 (A4) HP in	1	R				62533	2	0,1	hp4TempIn						x	x		
62031	Heat pump 5 (A5) HP in	1	R				62533	3	0,1	hp5TempIn						x	x		
62032	Heat pump 6 (A6) HP in	1	R				62533	4	0,1	hp6TempIn						x	x		
62033	Heat pump 7 (A7) HP in	1	R				62533	5	0,1	hp7TempIn						x	x		
62034	Heat pump 8 (A8) HP in	1	R				62533	6	0,1	hp8TempIn						x	x		
62035	Heat pump 9 (A9) HP in	1	R				62533	7	0,1	hp9TempIn						x	x		
62036	Heat pump 10 (A10) HP in	1	R				62533	8	0,1	hp10TempIn						x	x		

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoVent 1350F	EcoZenith 1350/	EcoZenith 1550	Eco Part6xx M Pro	Ecologic M L	Ecologic S
62037	Heat pump 1 (A1) HP out	1	R				62533	9	0,1	hp1TempOut	x	x	x	x	x	x	x	x	x
62038	Heat pump 2 (A2) HP out	1	R				62533	10	0,1	hp2TempOut					x	x	x	x	
62039	Heat pump 3 (A3) HP out	1	R				62533	11	0,1	hp3TempOut					x	x	x	x	
62040	Heat pump 4 (A4) HP out	1	R				62533	12	0,1	hp4TempOut							x	x	
62041	Heat pump 5 (A5) HP out	1	R				62533	13	0,1	hp5TempOut							x	x	
62042	Heat pump 6 (A6) HP out	1	R				62533	14	0,1	hp6TempOut							x	x	
62043	Heat pump 7 (A7) HP out	1	R				62533	15	0,1	hp7TempOut							x	x	
62044	Heat pump 8 (A8) HP out	1	R				62534	0	0,1	hp8TempOut							x	x	
62045	Heat pump 9 (A9) HP out	1	R				62534	1	0,1	hp9TempOut							x	x	
62046	Heat pump 10 (A10) HP out	1	R				62534	2	0,1	hp10TempOut							x	x	
62047	Heat pump 1 (A1): Discharge temperature	1	R				62534	3	0,1	hp1DischargeGas	x	x	x	x	x	x	x	x	x
62048	Heat pump 2 (A2) Discharge temperature	1	R				62534	4	0,1	hp2DischargeGas						x	x	x	
62049	Heat pump 3 (A3): Discharge temperature	1	R				62534	5	0,1	hp3DischargeGas						x	x	x	
62050	Heat pump 4 (A4): Discharge temperature	1	R				62534	6	0,1	hp4DischargeGas							x	x	
62051	Heat pump 5 (A5): Discharge temperature	1	R				62534	7	0,1	hp5DischargeGas							x	x	
62052	Heat pump 6 (A6): Discharge temperature	1	R				62534	8	0,1	hp6DischargeGas							x	x	
62053	Heat pump 7 (A7): Discharge temperature	1	R				62534	9	0,1	hp7DischargeGas							x	x	
62054	Heat pump 8 (A8): Discharge temperature	1	R				62534	10	0,1	hp8DischargeGas							x	x	
62055	Heat pump 9 (A9): Discharge temperature	1	R				62534	11	0,1	hp9DischargeGas							x	x	
62056	Heat pump 10 (A10): Discharge temperature	1	R				62534	12	0,1	hp10DischargeGas							x	x	
62057	Heat pump 1 (A1): Suction gas temperature	1	R				62534	13	0,1	hp1SuctionGas	x	x	x	x	x	x	x	x	x
62058	Heat pump 2 (A2) Suction gas temperature	1	R				62534	14	0,1	hp2SuctionGas						x	x	x	
62059	Heat pump 3 (A3): Suction gas temperature	1	R				62534	15	0,1	hp3SuctionGas						x	x	x	
62060	Heat pump 4 (A4): Suction gas temperature	1	R				62535	0	0,1	hp4SuctionGas							x	x	
62061	Heat pump 5 (A5): Suction gas temperature	1	R				62535	1	0,1	hp5SuctionGas							x	x	
62062	Heat pump 6 (A6): Suction gas temperature	1	R				62535	2	0,1	hp6SuctionGas							x	x	
62063	Heat pump 7 (A7): Suction gas temperature	1	R				62535	3	0,1	hp7SuctionGas							x	x	
62064	Heat pump 8 (A8): Suction gas temperature	1	R				62535	4	0,1	hp8SuctionGas							x	x	
62065	Heat pump 9 (A9): Suction gas temperature	1	R				62535	5	0,1	hp9SuctionGas							x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	GSI/GS	EcoZenith 1350/ EcoVent 1350F	EcoZenith 1550	Eco Part6xx M Pro	Ecologic M L	Ecologic S
62066	Heat pump 10 (A10): Suction gas temperature	1	R				62535	6	0,1	hp10SuctionGas							x	x
62067	Heat pump 1 (A1): High pressure	1	R				62535	7	0,1	hp1HighPressure	x	x	x	x	x	x	x	x
62068	Heat pump 2 (A2): High pressure	1	R				62535	8	0,1	hp2HighPressure					x	x	x	
62069	Heat pump 3 (A3): High pressure	1	R				62535	9	0,1	hp3HighPressure					x	x	x	
62070	Heat pump 4 (A4): High pressure	1	R				62535	10	0,1	hp4HighPressure						x	x	
62071	Heat pump 5 (A5): High pressure	1	R				62535	11	0,1	hp5HighPressure						x	x	
62072	Heat pump 6 (A6): High pressure	1	R				62535	12	0,1	hp6HighPressure						x	x	
62073	Heat pump 7 (A7): High pressure	1	R				62535	13	0,1	hp7HighPressure						x	x	
62074	Heat pump 8 (A8): High pressure	1	R				62535	14	0,1	hp8HighPressure						x	x	
62075	Heat pump 9 (A9): High pressure	1	R				62535	15	0,1	hp9HighPressure						x	x	
62076	Heat pump 10 (A10): High pressure	1	R				62536	0	0,1	hp10HighPressure						x	x	
62077	Heat pump 1 (A1): Low Pressure	1	R				62536	1	0,1	hp1LowPressure	x	x	x	x	x	x	x	x
62078	Heat pump 2 (A2): Low pressure	1	R				62536	2	0,1	hp2LowPressure					x	x	x	
62079	Heat pump 3 (A3): Low Pressure	1	R				62536	3	0,1	hp3LowPressure					x	x	x	
62080	Heat pump 4 (A4): Low Pressure	1	R				62536	4	0,1	hp4LowPressure						x	x	
62081	Heat pump 5 (A5): Low Pressure	1	R				62536	5	0,1	hp5LowPressure						x	x	
62082	Heat pump 6 (A6): Low Pressure	1	R				62536	6	0,1	hp6LowPressure						x	x	
62083	Heat pump 7 (A7): Low Pressure	1	R				62536	7	0,1	hp7LowPressure						x	x	
62084	Heat pump 8 (A8): Low Pressure	1	R				62536	8	0,1	hp8LowPressure						x	x	
62085	Heat pump 9 (A9): Low Pressure	1	R				62536	9	0,1	hp9LowPressure						x	x	
62086	Heat pump 10 (A10): Low Pressure	1	R				62536	10	0,1	hp10LowPressure						x	x	
62087	Heat pump 1 (A1): Brine in	1	R				62536	11	0,1	hp1BrineTempIn	x	x	x	x	x	x	x	x
62088	Heat pump 2 (A2): Brine in	1	R				62536	12	0,1	hp2BrineTempIn					x	x	x	
62089	Heat pump 3 (A3): Brine in	1	R				62536	13	0,1	hp3BrineTempIn					x	x	x	
62090	Heat pump 4 (A4): Brine in	1	R				62536	14	0,1	hp4BrineTempIn						x	x	
62091	Heat pump 5 (A5): Brine in	1	R				62536	15	0,1	hp5BrineTempIn						x	x	
62092	Heat pump 6 (A6): Brine in	1	R				62537	0	0,1	hp6BrineTempIn						x	x	
62093	Heat pump 7 (A7): Brine in	1	R				62537	1	0,1	hp7BrineTempIn						x	x	
62094	Heat pump 8 (A8): Brine in	1	R				62537	2	0,1	hp8BrineTempIn						x	x	
62095	Heat pump 9 (A9): Brine in	1	R				62537	3	0,1	hp9BrineTempIn						x	x	
62096	Heat pump 10 (A10): Brine in	1	R				62537	4	0,1	hp10BrineTempIn						x	x	
62097	Heat pump 1 (A1): Brine out	1	R				62537	5	0,1	hp1BrineTempOut	x	x	x	x	x	x	x	x
62098	Heat pump 2 (A2): Brine out	1	R				62537	6	0,1	hp2BrineTempOut					x	x	x	
62099	Heat pump 3 (A3): Brine out	1	R				62537	7	0,1	hp3BrineTempOut					x	x	x	
62100	Heat pump 4 (A4): Brine out	1	R				62537	8	0,1	hp4BrineTempOut						x	x	
62101	Heat pump 5 (A5): Brine out	1	R				62537	9	0,1	hp5BrineTempOut						x	x	
62102	Heat pump 6 (A6): Brine out	1	R				62537	10	0,1	hp6BrineTempOut						x	x	
62103	Heat pump 7 (A7): Brine out	1	R				62537	11	0,1	hp7BrineTempOut						x	x	
62104	Heat pump 8 (A8): Brine out	1	R				62537	12	0,1	hp8BrineTempOut						x	x	
62105	Heat pump 9 (A9): Brine out	1	R				62537	13	0,1	hp9BrineTempOut						x	x	
62106	Heat pump 10 (A10): Brine out	1	R				62537	14	0,1	hp10BrineTempOut						x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsl/GS	EcoVent 1350/ EcoVent 1500F	EcoZenith 1350/ EcoZenith 1550	EcoPartexx M Pro	Ecologic M L	Ecologic S
62107	Heat pump 1 (A1): Charge pump	1	R				62537	15	0,1	hp1ChargePump	x	x	x	x	x	x	x	x
62108	Heat pump 2 (A2): Chargepump	1	R				62538	0	0,1	hp2ChargePump					x	x	x	
62109	Heat pump 3 (A3): Charge pump	1	R				62538	1	0,1	hp3ChargePump					x	x	x	
62110	Heat pump 4 (A4): Charge pump	1	R				62538	2	0,1	hp4ChargePump						x	x	
62111	Heat pump 5 (A5): Charge pump	1	R				62538	3	0,1	hp5ChargePump						x	x	
62112	Heat pump 6 (A6): Charge pump	1	R				62538	4	0,1	hp6ChargePump						x	x	
62113	Heat pump 7 (A7): Charge pump	1	R				62538	5	0,1	hp7ChargePump						x	x	
62114	Heat pump 8 (A8): Charge pump	1	R				62538	6	0,1	hp8ChargePump						x	x	
62115	Heat pump 9 (A9): Charge pump	1	R				62538	7	0,1	hp9ChargePump						x	x	
62116	Heat pump 10 (A10): Charge pump	1	R				62538	8	0,1	hp10ChargePump						x	x	
62117	Heat pump 1 (A1): Brine pump	1	R				62538	9	0,1	hp1BrinePump	x	x	x	x	x	x	x	x
62118	Heat pump 2 (A2): Brine pump	1	R				62538	10	0,1	hp2BrinePump					x	x	x	
62119	Heat pump 3 (A3): Brine pump	1	R				62538	11	0,1	hp3BrinePump					x	x	x	
62120	Heat pump 4 (A4): Brine pump	1	R				62538	12	0,1	hp4BrinePump						x	x	
62121	Heat pump 5 (A5): Brine pump	1	R				62538	13	0,1	hp5BrinePump						x	x	
62122	Heat pump 6 (A6): Brine pump	1	R				62538	14	0,1	hp6BrinePump						x	x	
62123	Heat pump 7 (A7): Brine pump	1	R				62538	15	0,1	hp7BrinePump						x	x	
62124	Heat pump 8 (A8): Brine pump	1	R				62539	0	0,1	hp8BrinePump						x	x	
62125	Heat pump 9 (A9): Brine pump	1	R				62539	1	0,1	hp9BrinePump						x	x	
62126	Heat pump 10 (A10): Brine pump	1	R				62539	2	0,1	hp10BrinePump						x	x	
62127	Heat pump 1 (A1): Fan	1	R				62539	3	0,1	hp1Fan	x	x	x	x	x	x	x	x
62128	Heat pump 2 (A2) Fan	1	R				62539	4	0,1	hp2Fan					x	x	x	
62129	Heat pump 3 (A3): Fan	1	R				62539	5	0,1	hp3Fan					x	x	x	
62130	Heat pump 4 (A4): Fan	1	R				62539	6	0,1	hp4Fan						x	x	
62131	Heat pump 5 (A5): Fan	1	R				62539	7	0,1	hp5Fan						x	x	
62132	Heat pump 6 (A6): Fan	1	R				62539	8	0,1	hp6Fan						x	x	
62133	Heat pump 7 (A7): Fan	1	R				62539	9	0,1	hp7Fan						x	x	
62134	Heat pump 8 (A8): Fan	1	R				62539	10	0,1	hp8Fan						x	x	
62135	Heat pump 9 (A9): Fan	1	R				62539	11	0,1	hp9Fan						x	x	
62136	Heat pump 10 (A10): Fan	1	R				62539	12	0,1	hp10Fan						x	x	
62137	Heat pump 1 (A1): Defrost timer	1	R				62539	13	1	hp1DefrostTimer	x	x	x	x	x	x	x	x
62138	Heat pump 2 (A2) Defrost timer	1	R				62539	14	1	hp2DefrostTimer					x	x	x	
62139	Heat pump 3 (A3): Defrost timer	1	R				62539	15	1	hp3DefrostTimer					x	x	x	
62140	Heat pump 4 (A4): Defrost timer	1	R				62540	0	1	hp4DefrostTimer						x	x	
62141	Heat pump 5 (A5): Defrost timer	1	R				62540	1	1	hp5DefrostTimer						x	x	
62142	Heat pump 6 (A6): Defrost timer	1	R				62540	2	1	hp6DefrostTimer						x	x	
62143	Heat pump 7 (A7): Defrost timer	1	R				62540	3	1	hp7DefrostTimer						x	x	
62144	Heat pump 8 (A8): Defrost timer	1	R				62540	4	1	hp8DefrostTimer						x	x	
62145	Heat pump 9 (A9): Defrost timer	1	R				62540	5	1	hp9DefrostTimer						x	x	
62146	Heat pump 10 (A10): Defrost timer	1	R				62540	6	1	hp10DefrostTimer						x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoVent 1350F	EcoZenith 1350/	EcoZenith 1550	Eco Partexx M Pro	Ecologic M L	Ecologic S
62147	Heat pump 1 (A1): Outdoor temp	1	R				62540	7	0,1	hp1OutsideTemp	x	x	x	x	x	x	x	x	x
62148	Heat pump 2 (A2): Outdoor temp	1	R				62540	8	0,1	hp2OutsideTemp					x	x	x	x	
62149	Heat pump 3 (A3): Outdoor temp	1	R				62540	9	0,1	hp3OutsideTemp					x	x	x	x	
62150	Heat pump 4 (A4): Outdoor temp	1	R				62540	10	0,1	hp4OutsideTemp							x	x	
62151	Heat pump 5 (A5): Outdoor temp	1	R				62540	11	0,1	hp5OutsideTemp							x	x	
62152	Heat pump 6 (A6): Outdoor temp	1	R				62540	12	0,1	hp6OutsideTemp							x	x	
62153	Heat pump 7 (A7): Outdoor temp	1	R				62540	13	0,1	hp7OutsideTemp							x	x	
62154	Heat pump 8 (A8): Outdoor temp	1	R				62540	14	0,1	hp8OutsideTemp							x	x	
62155	Heat pump 9 (A9): Outdoor temp	1	R				62540	15	0,1	hp9OutsideTemp							x	x	
62156	Heat pump 10 (A10): Outdoor temp	1	R				62541	0	0,1	hp10OutsideTemp							x	x	
62157	Heat pump 1 (A1): Software version	1	R				62541	1	1	hp1SWVersion	x	x	x	x	x	x	x	x	x
62158	Heat pump 2 (A2): Software version	1	R				62541	2	1	hp2SWVersion					x	x	x	x	
62159	Heat pump 3 (A3): Software version	1	R				62541	3	1	hp3SWVersion					x	x	x	x	
62160	Heat pump 4 (A4): Software version	1	R				62541	4	1	hp4SWVersion							x	x	
62161	Heat pump 5 (A5): Software version	1	R				62541	5	1	hp5SWVersion							x	x	
62162	Heat pump 6 (A6): Software version	1	R				62541	6	1	hp6SWVersion							x	x	
62163	Heat pump 7 (A7): Software version	1	R				62541	7	1	hp7SWVersion							x	x	
62164	Heat pump 8 (A8): Software version	1	R				62541	8	1	hp8SWVersion							x	x	
62165	Heat pump 9 (A9): Software version	1	R				62541	9	1	hp9SWVersion							x	x	
62166	Heat pump 10 (A10): Software version	1	R				62541	10	1	hp10SWVersion							x	x	
62167	Degree minute	1	R				62541	11	0,1	sDM			x	x	x	x	x	x	
62168	Power kW immersion heater	1	R				62541	12	0,1	sPowerConsumption	x	x	x	x	x	x	x	x	
62169	Power kW immersion heater lower	1	R				62541	13	0,1	sPowerConsumptionHS		x				x	x	x	
62170	Maximum current	1	R				62541	14	0,1	sCurrent	x	x	x	x	x	x	x	x	
62171	Current L1	1	R				62541	15	0,1	s1Current	x	x	x	x	x	x	x	x	
62172	Current L2	1	R				62542	0	0,1	s2Current	x	x	x	x	x	x	x	x	
62173	Current L3	1	R				62542	1	0,1	s3Current	x	x	x	x	x	x	x	x	
62174	Pump Diff thermostat	1	R				62542	2	1	sDiffThermostatPump	x	x	x	x					
62175	Diff thermostat ° C	1	R				62542	3	0,1	sDiffThermostatTemp	x	x	x	x					
62176	EHS: Temperature	1	R				62542	4	0,1	ehsTemp			x	x					
62177	EHS: Primary flow -> Mode	1	R				62542	5	1	ehsStatus			x	x					
62178	Pool Mode	1	R				62542	6	1	poolStatus	x	x	x	x					
62179	Pool: Temperature	1	R				62542	7	0,1	poolTemp	x	x	x	x	x	x	x	x	
62180	Pool: Stop temperature	1	R				62542	8	0,1	poolTempStop	x	x	x	x	x	x	x	x	
62181	Solar: Mode 0=Off, 1=On	1	R				62542	9	1	sunStatus	x	x	x	x	x	x	x	x	
62182	Solar: Temperature out	1	R				62542	10	0,1	sunTempOut	x	x	x	x	x	x	x	x	
62183	Solar: Temperature in	1	R				62542	11	0,1	sunTempIn	x	x	x	x	x	x	x	x	
62184	Solar: Pump panel	1	R				62542	12	1	sunPump	x	x	x	x	x	x	x	x	
62185	Tank Timer	1	R				62542	13	1	sTankTimer						x	x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoVent i350F	EcoZenith i350/	EcoZenith i550	Eco Partexx M Pro	Ecologic M L	Ecologic S
62186	Stat: Total Operation LSB	0	R				62542	14	1	sTotalTime	x	x	x	x	x	x	x	x	x
62187	Stat: Total Operation (<< 16) MSB																		
62191	Stat: Immersion heater kWh	1	R				62543	3	1	sElHeaterConsumption	x	x	x	x	x				
62192	Function Test	1	R				62543	4	1	sFuncTest	x	x	x	x	x	x	x	x	
62193	Heat pump 1 (A1): Current RPS	1	R				62543	5	0,1	hp1CurrRPS	x	x	x	x	x	x	x	x	x
62194	Heat pump 2 (A2): Current RPS	1	R				62543	6	0,1	hp2CurrRPS						x	x	x	
62195	Heat pump 3 (A3): Current RPS	1	R				62543	7	0,1	hp3CurrRPS						x	x	x	
62196	Heat pump 4 (A4): Current RPS	1	R				62543	8	0,1	hp4CurrRPS							x	x	
62197	Heat pump 5 (A5): Current RPS	1	R				62543	9	0,1	hp5CurrRPS							x	x	
62198	Heat pump 6 (A6): Current RPS	1	R				62543	10	0,1	hp6CurrRPS							x	x	
62199	Heat pump 7 (A7): Current RPS	1	R				62543	11	0,1	hp7CurrRPS							x	x	
62200	Heat pump 8 (A8): Current RPS	1	R				62543	12	0,1	hp8CurrRPS							x	x	
62201	Heat pump 9 (A9): Current RPS	1	R				62543	13	0,1	hp9CurrRPS							x	x	
62202	Heat pump 10 (A10): Current RPS	1	R				62543	14	0,1	hp10CurrRPS							x	x	
62203	Current room temp 1	1	R				62543	15	0,1	hs1TempCurr	x	x	x	x	x	x	x	x	
62204	Current room temp 2	1	R				62544	0	0,1	hs2TempCurr	x	x	x	x	x	x	x	x	
62205	Current room temp 3	1	R				62544	1	0,1	hs3TempCurr						x	x	x	
62206	Current room temp 4	1	R				62544	2	0,1	hs4TempCurr							x	x	
62207	System Type	1	R				62544	3	1	sSystemType							x	x	
62208	Wood: Flue gas temperature (B8)	1	R				62544	4	1	woodFlueGasTemp						x	x	x	
62209	Wood: Temperature boiler (B9)	1	R				62544	5	1	woodBoilerTemp						x			
62210	E1: Boiler temperature (B9)	1	R				62544	6	0,1	ex1BoilerTemp				x	x	x	x	x	
62211	E1: Temperature boiler out (B10)	1	R				62544	7	0,1	ex1BoilerTempOut							x	x	
62212	E2: Number of steps	1	R				62544	8	1	ex2Steps							x	x	
62213	E3: Status	1	R				62544	9	1	ex3Status							x	x	
62214	State: Compressor 1 operating time LSB	0	R				62544	10	1	hp1CompressorTime	x	x	x	x	x	x	x	x	x
62215	State: Compressor 1 operating time (<< 16) MSB																		
62216	State: Compressor 2 operating time LSB	0	R				62544	12	1	hp2CompressorTime						x	x	x	
62217	State: Compressor 2 operating time (<< 16) MSB																		
62218	State: Compressor 3 operating time LSB	0	R				62544	14	1	hp3CompressorTime						x	x	x	
62219	State: Compressor 3 operating time (<< 16) MSB																		
62220	State: Compressor 4 operating time LSB	0	R				62545	0	1	hp4CompressorTime							x	x	
62221	State: Compressor 4 operating time (<< 16) MSB																		
62222	State: Compressor 5 operating time LSB	0	R				62545	2	1	hp5CompressorTime							x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoVent 1350F	EcoZenith 1350/	EcoZenith 1550	Eco Part6xx M Pro	Ecologic M L	Ecologic S	
62223	State: Compressor 5 operating time (<< 16) MSB																			
62224	State: Compressor 6 operating time LSB	0	R				62545	4	1	hp6CompressorTime								x	x	
62225	State: Compressor 6 operating time (<< 16) MSB																			
62226	State: Compressor 7 operating time LSB	0	R				62545	6	1	hp7CompressorTime								x	x	
62227	State: Compressor 7 operating time (<< 16) MSB																			
62228	State: Compressor 8 operating hours LSB	0	R				62545	8	1	hp8CompressorTime								x	x	
62229	State: Compressor 8 operating hours (<< 16) MSB																			
62230	State: Compressor 9 operating time LSB	0	R				62545	10	1	hp9CompressorTime								x	x	
62231	State: Compressor 9 operating time (<< 16) MSB																			
62232	State: Compressor 10 operating time LSB	0	R				62545	12	1	hp10CompressorTime								x	x	
62233	State: Compressor 10 operating time (<< 16) MSB																			
62234	State: Compressor 1 last 24h	0	R				62545	14	1	hp1CompressorTime24H	x	x	x	x	x	x	x	x	x	x
62235	State: Compressor 2 last 24h	0	R				62545	15	1	hp2CompressorTime24H						x	x	x	x	
62236	State: Compressor 3 last 24h	0	R				62546	0	1	hp3CompressorTime24H						x	x	x	x	
62237	State: Compressor 4 last 24h	0	R				62546	1	1	hp4CompressorTime24H								x	x	
62238	State: Compressor 5 last 24h	0	R				62546	2	1	hp5CompressorTime24H								x	x	
62239	State: Compressor 6 last 24h	0	R				62546	3	1	hp6CompressorTime24H								x	x	
62240	State: Compressor 7 last 24h	0	R				62546	4	1	hp7CompressorTime24H								x	x	
62241	State: Compressor 8 last 24h	0	R				62546	5	1	hp8CompressorTime24H								x	x	
62242	State: Compressor 9 last 24h	0	R				62546	6	1	hp9CompressorTime24H								x	x	
62243	State: Compressor 10 last 24h	0	R				62546	7	1	hp10CompressorTime24H								x	x	
62244	Software version Display month day	1	R				62546	8	1	sSoftwareVersionMD	x	x	x	x	x	x	x	x	x	
62245	Software version Display year	1	R				62546	9	1	sSoftwareVersionYear	x	x	x	x	x	x	x	x	x	
62246	Heating system 1 status 0 = Heating off, 1 = Vacation, 2= Night reduction, 3= On (normal mode)	1	R				62546	10	1	hs1Status	x	x	x	x	x	x	x	x	x	
62247	Heating system 2 status 0 = Heating off, 1 = Vacation, 2= Night reduction, 3= On (normal mode)	1	R				62546	11	1	hs2Status	x	x	x	x	x	x	x	x	x	
62248	Heating system 3 status 0 = Heating off, 1 = Vacation, 2= Night reduction, 3= On (normal mode)	1	R				62546	12	1	hs3Status						x	x	x	x	
62249	Heating system 4 status 0 = Heating off, 1 = Vacation, 2= Night reduction, 3= On (normal mode)	1	R				62546	13	1	hs4Status								x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoVent 1350F	EcoZenith 1350/	EcoZenith 1550	Eco Part6xx M Pro	Ecologic M L	Ecologic S
62250	Ext buffer tank upper B41	1	R				62546	14	0,1	exbUpperTemp						x			
62251	Ext buffer tank lower B42	1	R				62546	15	0,1	exbLowerTemp						x			
62252	Ext DHW buffer tank B43	1	R				62547	0	0,1	exbDHWTemp						x	x	x	
62253	Product type	1	R				62547	1	1	sProductType	x	x	x	x		x	x	x	
62254	Heat pump 1 (A1) type	1	R				62547	2	1	hp1Type	x	x	x	x		x	x	x	x
62255	Heat pump 2 (A2) type	1	R				62547	3	1	hp2Type						x	x	x	
62256	Heat pump 3 (A3) type	1	R				62547	4	1	hp3Type						x	x	x	
62257	Heat pump 4 (A4) type	1	R				62547	5	1	hp4Type							x	x	
62258	Heat pump 5 (A5) type	1	R				62547	6	1	hp5Type							x	x	
62259	Heat pump 6 (A6) type	1	R				62547	7	1	hp6Type							x	x	
62260	Heat pump 7 (A7) type	1	R				62547	8	1	hp7Type							x	x	
62261	Heat pump 8 (A8) type	1	R				62547	9	1	hp8Type							x	x	
62262	Heat pump 9 (A9) type	1	R				62547	10	1	hp9Type							x	x	
62263	Heat pump 10 (A10) type	1	R				62547	11	1	hp10Type							x	x	
62264	Heat pump 1 (A1) compressor model	1	R				62547	12	1	hp1CompressorModel	x	x	x	x		x	x	x	x
62265	Heat pump 2 (A2) compressor model	1	R				62547	13	1	hp2CompressorModel						x	x	x	
62266	Heat pump 3 (A3) compressor model	1	R				62547	14	1	hp3CompressorModel						x	x	x	
62267	Heat pump 4 (A4) compressor model	1	R				62547	15	1	hp4CompressorModel							x	x	
62268	Heat pump 5 (A5) compressor model	1	R				62548	0	1	hp5CompressorModel							x	x	
62269	Heat pump 6 (A6) compressor model	1	R				62548	1	1	hp6CompressorModel							x	x	
62270	Heat pump 7 (A7) compressor model	1	R				62548	2	1	hp7CompressorModel							x	x	
62271	Heat pump 8 (A8) compressor model	1	R				62548	3	1	hp8CompressorModel							x	x	
62272	Heat pump 9 (A9) compressor model	1	R				62548	4	1	hp9CompressorModel							x	x	
62273	Heat pump 10 (A10) compressor model	1	R				62548	5	1	hp10CompressorModel							x	x	
62274	Setpoint lower tank	1	R				62548	6	0,1	sTankLowerSetp	x	x				x	x	x	
62275	Actual temperature DHW lower	1	R				62548	7	0,1	sDHWLowerTemp			x	x					
62276	Actual temperature DHW	1	R				62548	8	0,1	sDHWUpperTemp	x	x	x	x		x	x	x	
62277	Actual temperature tank solar coil	1	R				62548	9	0,1	sSunTankTemp						x			
62278	Calculated setpoint for upper tank when el. heater is used	1	R				62548	10	0,1	sElHeaterTankUpperCalcSetp						x			
62279	Current DHW capacity in percent	1	R				62548	11	0,1	sDHWCapacity			x	x					
62280	Exhaust fan speed percent	1	R				62548	12	1	sFanExhaustPct	x	x	x	x		x	x	x	
62281	Highest measured CO2	1	R				62548	13	1	sHighestCO2	x	x	x	x		x	x	x	
62282	Highest measured humidity	1	R				62548	14	1	sHighestRH	x	x	x	x		x	x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoZenith 1350/ EcoVent 1350F	EcoZenith 1550	Eco Part6xx M Pro	Ecologic M L	Ecologic S
62283	Days until filter maintenance	1	R				62548	15	1	sVentMaintFilterDays	x	x	x	x	x	x	x	
62284	Ventilation night cooling status	1	R				62549	0	1	sVentNightcoolStatus	x	x	x	x	x	x	x	
62285																		
62286																		
62287																		
62288	Cooling tank setp	1	R				62549	4	0,1					x	x	x	x	
62289	Cooling tank temp	1	R				62549	5	0,1					x	x	x	x	
62290	Active cooling return temp	1	R				62549	6	0,1					x	x	x	x	
62291	Heat pump 1 (A1) Primary system flow	1	R				62549	7	0,1		x	x	x	x	x	x	x	x
62292	Heat pump 2 (A2) Primary system flow	1	R				62549	8	0,1						x	x	x	
62293	Heat pump 3 (A3) Primary system flow	1	R				62549	9	0,1						x	x	x	
62294	Heat pump 4 (A4) Primary system flow	1	R				62549	10	0,1						x	x	x	
62295	Heat pump 5 (A5) Primary system flow	1	R				62549	11	0,1						x	x	x	
62296	Heat pump 6 (A6) Primary system flow	1	R				62549	12	0,1						x	x	x	
62297	Heat pump 7 (A7) Primary system flow	1	R				62549	13	0,1						x	x	x	
62298	Heat pump 8 (A8) Primary system flow	1	R				62549	14	0,1						x	x	x	
62299	Heat pump 9 (A9) Primary system flow	1	R				62549	15	0,1						x	x	x	
62300	Heat pump 10 (A10) Primary system flow	1	R				62550	0	0,1						x	x	x	
62301	SGMode 0 = None/Normal, 1 = Block, 2 = Low price, 3 = High cap	1	R				62550	1	1		x	x	x	x	x	x	x	
62302	Elsport Price/MWh Integer (Currency depending on region)	1	R				62550	2	1		x	x	x	x	x	x	x	
62303	Elsport Price/MWh 4 decimals	0	R				62550	3	1		x	x	x	x	x	x	x	
62304	RadiatorPump1	0	R				62550	4	1		x	x	x	x	x	x	x	
62305	RadiatorPump2	0	R				62550	5	1		x	x	x	x	x	x	x	
62306	RadiatorPump3_G3	0	R				62550	6	1						x	x	x	
62307	RadiatorPump4_G4	0	R				62550	7	1							x	x	
62308	Heating system 1: Shunt state 0 = Close, 1 = Inactive, 2 = Open	0	R				62550	8	1		x	x			x	x	x	
62309	Heating system 2: Shunt state 0 = Close, 1 = Inactive, 2 = Open	0	R				62550	9	1		x	x	x	x	x	x	x	
62310	Heating system 3: Shunt state 0 = Close, 1 = Inactive, 2 = Open	0	R				62550	10	1						x	x	x	
62311	Heating system 4: Shunt state 0 = Close, 1 = Inactive, 2 = Open	0	R				62550	11	1							x	x	
62312	PumpG41 Extern DHW	0	R				62550	12	1						x	x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Factor	Bit	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoZenith 1350/ EcoVent 1350F	EcoZenith 1550	Eco Part6xx M Pro	Ecologic M L	Ecologic S
62313	HotWaterValve	0	R				62550	13	1		x	x	x	x	x	x	x	
62314	ExtBoilerOn	0	R				62550	14	1					x				
62315	EL1 Relay Bit 0: A, Bit 1: B	0	R				62550	15	1		x	x	x	x	x	x	x	
62316	EL2 Relay Bit 0: A, Bit 1: B	0	R				62551	0	1		x	x	x	x	x	x	x	
62317	EL3 Relay Bit 0: A, Bit 1: B	0	R				62551	1	1		x	x	x	x	x			
62318	EIHeater3_6kW	0	R				62551	2	1			x			x			
62319	EVK: Shunt state 0 = Close, 1 = Inactive, 2 = Open	0	R				62551	3	1				x	x				
62320	ExtBoiler: Shunt state 0 = Close, 1 = Inactive, 2 = Open	0	R				62551	4	1					x				
62321	Active Cooling: Valve	0	R				62551	5	1					x	x	x	x	
62322	Active Cooling: Demand	0	R				62551	6	1					x	x	x	x	
62323	DHW Pump: 0-100	0	R				62551	7	1				x	x				
62324	SolarTankSelection	0	R				62551	8	1		x	x	x	x				
62325	SolarBedrockSelection	0	R				62551	9	1		x	x	x	x				
62326	HotWaterValve2	0	R				62551	10	1							x	x	
62327	E4	0	R				62551	11	1							x	x	
62328	E1	0	R				62551	12	1							x	x	
62329	Stat: Immersion heater kWh MSB (when lower counter reaches 65535 this increases)	0	R				62551	13	1		x	x	x	x	x			
62330	Current room temp cooling	1	R				62551	14	0,1		x	x	x	x	x	x	x	
62331	HP1 Power consumption kW	0	R				62551	15	0,1		x	x	x	x	x	x	x	
62332	HP2 Power consumption kW	0	R				62552	0	0,1						x	x	x	
62333	HP3 Power consumption kW	0	R				62552	1	0,1						x	x	x	
62334	HP4 Power consumption kW	0	R				62552	2	0,1							x	x	
62335	HP5 Power consumption kW	0	R				62552	3	0,1								x	x
62336	HP6 Power consumption kW	0	R				62552	4	0,1								x	x
62337	HP7 Power consumption kW	0	R				62552	5	0,1								x	x
62338	HP8 Power consumption kW	0	R				62552	6	0,1								x	x
62339	HP9 Power consumption kW	0	R				62552	7	0,1								x	x
62340	HP10 Power consumption kW	0	R				62552	8	0,1								x	x
62341	Compressor 1 Power consumption kWh LSB	0	R				62552	9	1		x	x	x	x	x	x	x	
62342	Compressor 1 Power consumption kWh (<< 16) MSB	0	R				62552	10	1		x	x	x	x	x	x	x	
62343	Compressor 2 Power consumption kWh LSB	0	R				62552	11	1						x	x	x	
62344	Compressor 2 Power consumption kWh (<< 16) MSB	0	R				62552	12	1						x	x	x	

BMS Register	Function	Signed	Read/Write	Max	Min	Step	Visible	Bit	Factor	Name	EcoHeat 400	EcoZenith 1250	GSI/GS	EcoZenith 1350/ EcoVent 1350F	EcoZenith 1550	Eco Part6xx MI Pro	Ecologic M L	Ecologic S
62345	Compressor 3 Power consumption kWh LSB	0	R				62552	13	1						x	x	x	
62346	Compressor 3 Power consumption kWh (<< 16) MSB	0	R				62552	14	1						x	x	x	
62347	Compressor 4 Power consumption kWh LSB	0	R				62552	15	1							x	x	
62348	Compressor 4 Power consumption kWh (<< 16) MSB	0	R				62553	0	1							x	x	
62349	Compressor 5 Power consumption kWh LSB	0	R				62553	1	1							x	x	
62350	Compressor 5 Power consumption kWh (<< 16) MSB	0	R				62553	2	1							x	x	
62351	Compressor 6 Power consumption kWh LSB	0	R				62553	3	1							x	x	
62352	Compressor 6 Power consumption kWh (<< 16) MSB	0	R				62553	4	1							x	x	
62353	Compressor 7 Power consumption kWh LSB	0	R				62553	5	1							x	x	
62354	Compressor 7 Power consumption kWh (<< 16) MSB	0	R				62553	6	1							x	x	
62355	Compressor 8 Power consumption kWh LSB	0	R				62553	7	1							x	x	
62356	Compressor 8 Power consumption kWh (<< 16) MSB	0	R				62553	8	1							x	x	
62357	Compressor 9 Power consumption kWh LSB	0	R				62553	9	1							x	x	
62358	Compressor 9 Power consumption kWh (<< 16) MSB	0	R				62553	10	1							x	x	
62359	Compressor 10 Power consumption kWh LSB	0	R				62553	11	1							x	x	
62360	Compressor 10 Power consumption kWh (<< 16) MSB	0	R				62553	12	1							x	x	
62361	Power kW immersion heater(s)	0	R				62553	13	0.1		x	x	x	x	x	x	x	
62362	HBT top temp	0	R				62553	14	1							x	x	
62363	DHW tank top temp	0	R				62553	15	1							x	x	
62364	Cooling tank top temp	0	R				62554	0	1						x	x	x	
62365	Periodic extra DHW status 0 = periodic extra DHW not defined 1 = periodic extra DHW active 2 = periodic extra DHW off, normal 3 = periodic extra DHW off, last DHW increase failed	0	R				62554	1	1						x	x	x	

BMS Register	Function	Read/Write Signed	Max	Min	Step	Visible	Factor	Bit	Name	EcoHeat 400	EcoZenith 1250	Gsi/GS	EcoVent 1350F	EcoZenith 1350/	EcoZenith 1550	Eco Part6xx M Pro	Ecologic M L	Ecologic S
	BMS through Modbus (RS485):																	
	Display software: 2017-01-01 or later																	
	Register number starts above standard modbus (larger than 49999)																	
	Reading: Analogue Output Holding Registers Function code: 0x03H / 3																	
	Writing: Analogue Output Holding Registers Function code:0x10H / 16																	
	Offset: 0																	
	Max register per transmission: 100.																	