

Product Manual ise smart connect KNX Vaillant

Order No. S-0001-006 Complete set for installation, consisting of the two system components: - ise smart connect KNX Vaillant and - ise eBUS Adapter

Order No. 1-0006-007 - ise smart connect KNX Vaillant

Order No. 2-0001-003 - ise eBUS Adapter

Valid for application software version 2.0 and firmware version 2.1





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1 **Product description**

1.1 Functions

- Operating a sensoCOMFORT or multiMATIC-controlled Vaillant¹ heating and domestic hot water system using KNX².
- Control of heating and cooling function, hot water and ventilation with the usual KNX operating devices regardless of heating control unit.
- Easy connection of visualisation systems and facility management systems.
- Changes made using the heating system controller are reported on the KNX.
- Supports accelerated transmission from the ETS² to the ise smart connect KNX Vaillant via a direct IP connection.
- The ise smart connect KNX Vaillant is configured using the latest version of the ETS5. The application accesses ETS functions not supported by earlier ETS versions.
- Together with the ise eBUS Adapter, the ise smart connect KNX Vaillant establishes the connection between the smart heating control and your KNX system.

Important note:

The use of both system components is required to ensure functioning control. The ise smart connect KNX Vaillant can therefore only be used in conjunction with the ise eBUS Adapter. The system components can be ordered as a set or individually (for replacement purposes). The Vaillant heating system must be controlled using a sensoCOMFORT or multiMATIC system controller. Other system controllers are not compatible. The term system controller is used for both variants in the rest of this manual.

Important!

The device must be supplied with voltage by a dedicated power supply unit. Do not use the auxiliary voltage output of a KNX power supply unit which is also supplying a KNX line.

Important note:

The product comes with a handover protocol in German and English. The HVAC supplier must document installation on the handover protocol and hand it to the planner for building technology (KNX bus system). The handover protocol is available in other languages on the website at www.ise.de/en/home.

¹ Vaillant is a registered trademark of Vaillant Deutschland GmbH & Co. KG

² ETS and KNX are registered trademarks of KNX Association cvba



1.2 Vaillant goes KNX

The ise smart connect KNX Vaillant enables you to implement innovative solutions for your intelligent home.

Connecting KNX and Vaillant opens up new possibilities:

- Your presence and absence control the heating.
- Operating devices in every room desired enable convenient access to your Vaillant system.
- "Instant" hot water can be requested using a sensor or an operating device in the room in question.
- Integration of heating and/or ventilation in building scenarios.

These and other application examples can be found in more detail in chapter 1.5 "Use scenarios – Comfort solutions with KNX and Vaillant".

1.3 Definitions and explanation of terms

• ise eBUS Adapter

The ise eBUS Adapter is a system component used to connect the Vaillant bus modular control system with the KNX system.

The eBUS adapter connects

– ise smart connect series devices for the eBUS connection, in this case, ise smart connect KNX Vaillant, and

- the Vaillant controller

with one another via a USB interface.

The eBUS adapter is a specially designed system component for these specific use cases. Any other use or use beyond this purpose is considered improper.

• Vaillant system

All components of the Vaillant heating system are designated as the Vaillant system. One of these components must be a system controller with which the ise smart connect KNX Vaillant communicates. This can also be the radio module in the system controller.

Information on the operation, installation and any required accessories can be found in the corresponding documents issued by Vaillant.

• eBUS

The commands generated by KNX devices are prepared via the ise smart connect KNX Vaillant and the ise eBUS Adapter to enable communication with the central system controls the Vaillant system via the eBUS.

Separate addressing of ise system components for the eBUS is not necessary.

The eBUS connection point is described in chapter 2.5 "Connecting the ise eBUS Adapter to the eBUS".

The relevant instructions for installation on the eBUS provided by Vaillant (connection procedures, cable selection etc.) must be observed.



1.4 Function schematic





1.5 Usage scenarios – Comfort solutions with KNX and Vaillant

Enhance the existing Comfort functions of your KNX system and smart heating and domestic hot water control.

1.5.1 Your presence controls the heating

You won't be at home for a longer period of time. KNX enables you to perform an occupied-home simulation today, allowing you to conveniently activate the alarm system by pressing the "absence switch". You can now also use the ise smart connect KNX Vaillant to switch your heating system to "standby mode". This allows you to reduce the room temperature setpoint values in all rooms (if desired) and minimise heating.

1.5.2 Controlling hot water and heating as needed

You want to be able to enter and change the times and setpoint values for heating and hot water in your visualisation or any other operating device quickly and easily. This means you can save energy without renouncing comfort. After all, the system only works when you need it.

1.5.3 Adjusting heating and hot water to special situations

You want to be able to react to short-term changes in use quickly and easily (longer than usual periods of absence, events, parties, etc.). With the ise smart connect KNX Vaillant, you can temporarily change the times and setpoint values for heating and hot water. After this period, your standard values apply once again.

1.5.4 Controlling ventilation

Adapt the ventilation system to meet your needs. Start modes such as ventilation boost at the push of a button.



1.6 Obtaining information from the Vaillant system

1.6.1 Preparing information on energy yield

Prepare information on the energy yield of the heat pumps and/or solar system to create a clear overview of the energy generation on your visualisation. Note that this information must be provided by the components used in the heating system.

1.6.2 Energy consumption at a glance

Prepare information on the energy consumption to create a constant overview of consumption on your visualisation (or other display). Recognise changes and adapt the control to changed usage behaviour if necessary. Note that this information must be provided by the components used in the heating system.

1.6.3 Display heating status

Prepare information on your heating system to create a constant overview of the system on your visualisation. This enables you to react immediately in the event of a fault.

1.6.4 Heating active/inactive

Check whether the heating is currently active at any time via your visualisation.

1.6.5 Display water pressure

Receive an alarm signal for insufficient water pressure. Select the signalling in a manner and location that allows you to react quickly.

1.6.6 Informed in detail

Whether you are on the sofa or looking at the panel, you can read important data such as the hot water temperature, the circulation pump status or the minimum setpoint flow temperature for cooling mode quickly and clearly on your KNX visualisation display.



2 Installation, electrical connection and operation

2.1 Device design ise smart connect KNX Vaillant



Figure 1: ise smart connect KNX Vaillant

1	Programming button for KNX	Switches the device to the ETS programming mode or vice versa.		
2	KNX connection (twisted pair)	Left: (+/red) Right: (-/black)		
3	Connection for power supply	DC 24 to 30 V, 2 W (at 24 V) Left: (+ / yellow) Right: (- / white)		
4	KNX programming LED (red)	Red: Device is in ETS programming mode		
5	LED APP (green)	Green: Normal operation Off / flashes: See 4.2.1 / 4.2.2 for start or diagnosis code		
6	LED COM (yellow)	Yellow: Normal operation (brief dark phases indicate KNX telegram traffic) Off / flashes: See 4.2.1 / 4.2.2 for start or diagnosis code		
7	Ethernet connection	LED 10/100 speed (green)LED link/ACT (orange)On:100 Mbit/sOn:Connection to IP networkOff:10 Mbit/sOff:No connectionFlashes:Data reception on IP		
8	USB connection	USB connection type A; establishes the connection to the Vaillant system via the ise eBUS Adapter. Use the supplied USB cable as standard. Please note that the use of USB cables with a length of more than 3 m is generally not permitted.		
9	microSD card slot	Without function.		



2.2 Safety notes

Electrical devices may only be installed and mounted by a qualified electrician. In doing so, the applicable accident prevention regulations must be observed. Failure to observe the installation instructions can result in damage to the device, fire or other dangers.



DANGER!

Electric shock if live parts are touched. Electric shock may lead to death. Isolate connection cables before working on the device. Cover up live parts in the vicinity!



IMPORTANT!

The device must be supplied with voltage by a dedicated power supply unit. Do not use the auxiliary voltage output of a KNX power supply unit which is also supplying a KNX line.

See the installation instructions enclosed with the device for more information.

2.3 Installation and electrical connection

Installing the device

- The device is intended for fixed installation in indoor spaces and dry rooms.
- Snap it on to the top-hat rail as per DIN EN 60715, vertical installation; network connections must face downward.
- I A KNX data rail is not required; the connection to KNX-TP is established using the accompanying bus connection terminal.
- ☑ Observe temperature range (0 °C to +45 °C); do not install over heat-emitting devices and ensure sufficient ventilation/cooling if necessary.

Connecting the device

- Route the bus line with the sheathing intact until it is close to the bus connection terminal.
- Firmly press the bus line into the bus connection terminal as far as possible.
- Install bus line leads without sheathing (SELV) reliably disconnected from all non-safety low-voltage cables (SELV/PELV).
- Maintain the specified clearance.
- Attach the cover cap supplied.
- Also see also the VDE regulations governing SELV (DIN VDE 0100-410/"Safe separation", KNX installation regulation) for more information.
- Connect the external power supply to the device's power supply connection (3) using a KNX device connection terminal, preferably yellow/white.
 Polarity: left/yellow: (+), white/right: (-).
- <u>Important:</u> The device must be supplied with voltage by a dedicated power supply unit. Do
 not use the auxiliary voltage output of a KNX power supply unit which is also supplying a
 KNX line.



- Connect one IP network cable to the device's network connection (7).
- Connect the USB interface (8) to the ise eBUS Adapter. Use the supplied USB cable as standard.
 Please note that the use of USB cables with a length of more than 3 m is generally not permitted. When connecting an active ise smart connect KNX Vaillant with the ise eBUS Adapter, the initialisation may require up to three minutes. During this time, the ise smart connect KNX Vaillant may restart.

<u>Note:</u> The use of the ise smart connect KNX Vaillant requires the use of an ise eBUS Adapter. This can be ordered as a set or individually (as a replacement).

Fitting/removing a cover cap

A cover cap can be fitted to protect the KNX bus and power supply connections from dangerous voltages, particularly in the connection area.

The cap is fitted with an attached bus and power supply terminal and a connected bus and power supply line to the rear.

- Fitting the cover cap: The cover cap is pushed over the bus terminal until you hear and feel it lock into position (compare Figure 2: Fitting/removing a cover cap (A)).
- Removing the cover cap: The cover cap is removed by pressing it in slightly on the side and pulling it off to the front (compare Figure 2: Fitting/removing a cover cap (B)).



Figure 2: Fitting/removing a cover cap



2.4 Device design ise eBUS Adapter



Figure 3: ise eBUS Adapter

1	eBUS connection	Important note: The maximum length of the eBUS connection ca- ble is 125 m. Please see chapter 2.5 "Connecting the ise eBUS Adapter to the eBUS" for the position of the eBUS connection.
2	LED PWR (green)	Green: Minimum voltage from eBUS is connected
3	LED COM (green)	Green: Connection between ise smart connect KNX Vaillant with eBUS established
4	USB connection	 Important note: The adapter cable for the USB port is equipped with a mini USB-B angle plug. To prevent damage, the angled plug must always be pulled out toward the front. Use the supplied USB cable as standard. Please note that the use of USB cables with a length of more than 3 m is generally not permitted.

See the installation instructions enclosed with the device for more information.



2.5 Connecting the ise eBUS Adapter to the eBUS

The heating technology supplier has installed a junction box in which an eBUS cable is laid from the heating system. The company installing the KNX system will establish the connection to the ise eBUS Adapter in this junction box.



Figure 4: Junction box for the connection of the ise eBUS Adapter to the heating system.

The position of the junction box can be seen in the handover protocol from executing HVAC supplier to the building technology planner (KNX bus system). You can find the required information in Point 7 "Position of eBUS connection point between the Vaillant heating system and KNX Gateway".

Once the connection between the KNX system and the eBUS is established, the company installing the KNX system must attach the following sticker enclosed with the product to the Vaillant system:



Figure 5: Heating system marking.



It is recommended to attach the sticker here:

	Controlled by KNX	

Figure 6: Sticker attachment to BMU.



3 Configuration

Configuration of the ise smart connect KNX Vaillant system components is divided into the following steps:

Pre	parations:	For explana- tions, see
1	Installing ise eBUS Adapter. Connect the ise smart connect KNX Vaillant with the ise eBUS Adapter via the USB interface. Use the supplied USB cable as standard. Please note that the use of USB cables with a length of more than 3 m is generally not permitted.	\rightarrow Chapter 2
2	Mount ise smart connect KNX Vaillant; connect to KNX bus connection and auxiliary power. <u>Important note</u> : The device must be supplied with voltage by a dedicated power supply unit. Do not use the auxiliary voltage output of a KNX power supply unit which is also supplying a KNX line.	\rightarrow Chapter 2.3
3	Connect the ise eBUS Adapter with the eBUS in the designated junction box. Important note: The maximum length of the eBUS connection cable is 125 m.	\rightarrow Chapter 2.5
4	If necessary, install the ise smart connect KNX Vaillant on the IP network and make settings on the IP network router where required.	
Со	nfiguration via ETS:	
The and Sof	e device can be put into operation after installing the device and connecting the b , if necessary, Ethernet. The preparatory configuration is carried out using the E tware, ETS, available from the KNX Association, see <u>www.knx.org</u> .	ous, power supply ngineering Tool
1	Create the ise smart connect KNX Vaillant as a device in the ETS.	\rightarrow Chapter 3.1
2	Assign individual address as usual as appropriate for the KNX topology.	
3	Set IP address, IP subnet mask and default gateway address on the ise smart connect KNX Vaillant or select "Obtain an IP address automatically (from a DHCP server)".	\rightarrow Chapter 3.3
4	General parameters for setting the ise smart connect KNX Vaillant.	→ Chapter 3.4.1
5	Connect group addresses to communication object as usual.	\rightarrow Chapter 3.5
6	The ise smart connect KNX Vaillant is now ready for commissioning via "Download ETS" and for testing of the functions.	



3.1 Configuration step 1 – Create ise smart connect KNX Vaillant as device in the ETS

If you have not already done so, import the ETS device application to the ise smart connect KNX Vaillant once in the device catalogue of its ETS, for example using the "Import products" function on the start page of the ETS.

You can download the ETS application from our website under <u>www.ise.de/en/home</u> free of charge.

The other explanations in this document refer to

Hardware		Application software		
Device: ise smart connect KNX Vaillant		Application:	ise smart connect KNX Vaillant	
Manufacturer: ise GmbH		Version:	V2.0	
Order no.:	1-0006-007			
Version:	V1.0			
Design:	DRA (series installation)			

If you already have an ETS project with a previous database entry, you can also update the application program. To do this, drag the new database entry to the project and then select the device with the old database entry. Now select "*Information*" in the device "*Properties*" and then select the "*Application*" tab.

There, you can use the "*Update*" button to replace the old database entry. Existing links with group addresses are not lost. The newly added device can now be deleted again.

3.2 Configuration step 2 – Assigning an individual address

In the ETS, assign the device an individual address as usual as appropriate for the KNX topology.

3.3 Configuration step 3 – Setting the IP address, subnet mask and address of the default gateway

In addition to the individual address on the KNX network, the ise smart connect KNX Vaillant can also be assigned an address on the IP data network. This includes the following information:

- IP address,
- subnet mask and the
- address of the default gateway.

This can occur in two ways, either

- automatically by obtaining the data from a DHCP server (e.g. integrated in the router of the data network) or
- making a manual setting in the ETS.



Proceed as follows for this purpose:

- 1. Select the device in the ETS.
- 2. Display the device properties in the sidebar on the ETS as shown in Figure 7: ETS device properties dialogue.
- 3. Select the "IP" tab according to Figure 8. Then select either

⊙ Obtain an IP address automatically (default)

The address data are automatically obtained from a DHCP server on the data network.

or

⊙ Use a static IP address

and enter the data manually.

You can usually obtain the permitted IP address range and the subnet mask and standard gate-way from the router configuration interface.

If the • Obtain an IP address automatically setting is used, a DHCP server must issue a valid IP address to the ise smart connect KNX Vaillant.

If a DHCP server is not available for this setting, the device starts up after a waiting time with an AutoIP address (address range from 169.254.1.0 to 169.254.254.255).

As soon as a DHCP server is available, the device is automatically assigned a new IP address.

Settings	IP	Comments	Inform	nation	
Name					
a dividual Add					
ndividual Add	iress		1.1	1 ‡	Park
Description					

Figure 7: ETS device properties dialogue.

Propertie	es			>
© Settings	IP	Comments	() Information	
Obtain an IF	P address auto IP address	omatically		
IP Address				
255.255.255.25	5			
Subnet Mask				
255.255.255.25	5			
Default Gatew	ay			
255.255.255.25	5			
MAC Address				
Unknown				
Multicast Add	ress			
224 0 23 12				

Figure 8: Setting for the device's IP address data on the "IP" tab in the sidebar of the ETS.

3.4 Setting general parameters

3.4.1 System dimensioning parameters

In the first part of the parametrisation, a prompt is given for system dimensioning. Take the system dimensioning from the handover protocol from the HVAC supplier. However, if you have updated the ETS application, check the system dimensioning and complete the handover protocol if necessary.

Individual components are requested separately. The default value of each parameter is marked in **bold**.

System dimen- sioning	Components	Entry / Selec- tion	Remarks
Heat generator	A Vaillant gas boiler is available	Yes No	
Heat generator	A Vaillant heat pump is available	Yes No	
Solar thermal sys- tem	A solar thermal system is available, the data from which the system controller records	Yes No	
Solar thermal sys- tem	A Vaillant VMS or VPM-S is available	Yes No	Only visible if yes was the an- swer to the pre- vious point.
Ventilation	A Vaillant recoVAIR domestic ventilation unit is available, which is controlled by the system controller	Yes No	
Heat generator	Heat generator 1 is available	Yes No	
Heat generator	Heat generator 2 is available	Yes No	
Heat generator	Heat generator 3 is available	Yes No	
Heat generator	Heat generator 4 is available	Yes No	
Heat generator	Heat generator 5 is available	Yes No	
Heat generator	Heat generator 6 is available		



System dimen- sioning	Components	Entry / Selec- tion	Remarks
		Yes No	
Heat generator	Heat generator 7 is available	Yes No	
Heat generator Heat generator 8 is available		Yes No	
Heating circuit 1	A heating circuit 1 is available for room heat- ing	Yes No	
T	The cooling function for circuit 1 is activated on the system controller	Yes No	
Heating circuit 2	A heating circuit 2 is available for room heat- ing	Yes No	
"	The cooling function for circuit 2 is activated on the system controller	Yes No	
Heating circuit 3	A heating circuit 3 is available for room heat- ing	Yes No	
"	The cooling function for circuit 3 is activated on the system controller	Yes No	
Hot water	Hot water is controlled via the system control- ler	Yes No	
"	A Vaillant VPM-W domestic hot water unit is available in the system	Yes No	
"	A mixer circuit is configured as a cylinder charging circuit for hot water cylinder charg- ing	Yes No	



System dimen- sioning	Components	En- try/Se- lection	Remarks
Sensors	The automatic date/time functions at the sys- tem's location	Yes No	
"	The system controller shows the fuel con- sumption (gas consumption) in the "Infor- mation" menu	Yes No	
"	The system controller shows the consump- tion (electricity consumption) in the "Infor- mation" menu	Yes No	
"	The system controller shows the water pres- sure in the "Information/System status" menu	Yes No	
n	The heating system should be re-filled with water if it falls below the following water pres- sure	0 bar	

3.4.2 Parameters use cases

In the second part of the parametrisation, a prompt is given for corresponding use cases. The possible use cases are already defined by the system dimensioning. Simply mark the cases you wish with a tick. No ticks are marked during the first call-up.

Note that all supported use cases appear in the following list. The actual use cases possible for a system depend on the system dimensioning. Only these will be offered by the ETS.

Rubric	Use cases
Smart control	I would like "Standby" activation in my home, so I can also switch my heat- ing to "Standby".
"	I would like to be able to configure hot water heating and heating in my vis- ualisation with time control.
"	I always would like to carry out short-term changes to my regular heating and hot water control in order to maintain a pleasant room temperature and hot water during longer periods of presence (e.g. overtime in the office or party at home).
"	I would like to be able to change the operation mode of the ventilation or switch the ventilation boost on/off in order to adapt the ventilation to my current requirements.
Information	I would like to see the energy yield of my heat pump and solar thermal sys- tem in my visualisation in order to monitor the overall yield of my system.
"	I would like to be able to see the energy consumption of my Vaillant sys- tem in my visualisation in order to display the current value and historical diagrams.
"	I would like to see the system status of my Vaillant system in my visualisa- tion in order to have constant reassurance that everything is okay.
"	I would like to see the current water pressure of the system in my visualisa- tion and be able to activate an alarm if it becomes too low in order to be able to react to it.



3.4.3 Time settings

The time settings are made in the third part of parametrisation.

You can enter the time intervals when the time and date are sent from the system controller to the KNX system under *Clock*.

You select how the cooling time is to be set under *Manual cooling function*.

The individual time settings are queried separately during this process. The default value of each parameter is marked in **bold**.

Rubric	Time settings	Entry/Selection
Clock	Send time	Every minute Every hour Every day
"	Send date	Every minute Every hour Every day
Manual cooling function	Set cooling time	Number of cooling days Cooling interval



3.5 Connecting group addresses to group communication objects

Different group objects are available for connecting group addresses on the ise smart connect KNX Vaillant. The visibility of the group communication object is dependent on the setting in the chapters 3.4.1 "System dimensioning parameters" and 3.4.2 "Parameters use cases". Dependency is specified for each communication object in italics under "Description".

Note on querying status values on the system controller:

- Communication objects whose query frequency is prioritised: The ise smart connect KNX Vaillant updates the information on the heating system's status at regular intervals based on prioritisation. Any changes to the status are thus only identified during the next query.
- Communication objects which are not subject to prioritisation: The ise smart connect KNX Vaillant updates the information based on events. Changes to the status are thus identified in real time.
- It is possible that values are made available by the heating regulator for a longer period of time. This means that, even if the values are polled by the ise smart connect KNX Vaillant at shorter intervals, the values on the KNX bus do not change until updating occurs in the heating regulator. It may also be the case that values which have already been updated are shown on the controller's display, but are not available to the ise smart connect KNX Vaillant yet. In addition to prioritisation, the updating time on the controller is also indicated for communication objects concerned.

Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
∎₹	1	System in service mode	Read	1 bit	1.011	CR-T-	
Rubric:		Connections	Data type:	St	atus		
Function:		Indicates whether the system's Cycle time: max. 5.5 minutes	service mode is a	service mode is active.			
Description:		This communication object is a	ılways visible.				
Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
■2	2	Fault heating generator	Read	1 bit	1.002	CR-T-	
Rubric:		Connections	Data type:	Bo	olean		
Function:		Indicates whether one of the av Cycle time: max. 9 minutes	vailable heat gener	rators has an	error.		
Description:		This communication object is a	lways visible.				
		True = Error exists					



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■ Z	3	Time	Read	3 bytes	10.001	CR-T-
Rubric:		Date/time	Data type:	Tim	e of day	
Function:		Provides the Vaillant system ti Cycle time: max. 3 minutes Clock interval: Every minute/e	me very hour/every da	у		
Description:		This communication object is tion functions at the system's l	visible when the au ocation.	tomatic date	e/time cont	figura-
		Parameters > System dimensi tions at the system's location <	ioning > Sensors > <yes></yes>	The automa	atic date/ti	me func-
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■‡	4	Date	Read	3 bytes	11.001	CR-T-
Rubric:		Date/time	Data type:	l	Date	
Function:		Provides the Vaillant system d Cycle time: max. 3 minutes Clock interval: Every minute/e	late. very hour/every da	У		
Description:		This communication object is tion functions at the system's I	visible when the au ocation.	tomatic date	e/time cont	figura-
		Parameters > System dimensi tions at the system's location ·	oning > Sensors > <yes></yes>	The automa	atic date/ti	me func-
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■	5	Outside temperature	Read	2 bytes	9.001	CR-T-
Rubric:		Temperature	Data type:	Tempe	erature (°C)
Function:		Provides the outside temperat Cycle time: max. 3 minutes Value range > - 40 °C	ure.			
Description:		This communication object is a	always visible.			
		If the value is - 40 °C or lower, ject 12. This can indicate a de	, error code 7 is se fect in the tempera	nt to group c ture sensor.	communica	ation ob-
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■≠	6	System status "Standby"	Read	1 bit	1.011	CR-T-
Rubric:			Data type:	S	Status	
Function:		Indicates whether the system Cycle time: max. 3 minutes	is in "Standby" moo	de.		
Description:		This communication object is a	always visible.			



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■	7	System status "Heating"	Read	1 bit	1.011	CR-T-
Rubric:			Data type:	St	atus	
Function:		Indicates whether the system i Cycle time: max. 3 minutes	s in "Heating" mod	e.		
Description:		This communication object is visible when a heating circuit is available and th corresponding use case has been selected.				
		Parameters > System dimension available for room heating <ye and Parameters > Use cases > Info of my Vaillant system () <y></y></ye 	oning > Heating cir s> ormation > I would	cuit N > A he	eating circ e system	cuit N is status
Object		Name	Direction	Data width	DP type	Flags (CRWTU)

Object		Name	Direction	Data width	DP туре	(CRWTU)
∎₹	8	System status "Cooling"	Read	1 bit	1.011	CR-T-
Rubric:			Data type:	St	atus	
Function:		Indicates whether the system is Cycle time: max. 3 minutes	s in "Cooling" mode	Э.		
Description:		This communication object is v used for cooling.	isible when the Va	illant system	is also to) be
		The requirement for this is a here vated and the corresponding us	eating circuit which se case has been s	has the cool selected.	ling funct	ion acti-
		Parameters > System dimension available for room heating <yes and</yes 	oning > Heating cir s>	cuit N > A he	eating circ	cuit N is
		Parameters > System dimension for circuit N is activated in the stand	oning > Heating cir system controller <	cuit N > The yes>	cooling f	unction
		Parameters > Use cases >Info my Vaillant system () < _/ >	rmation > I would l	ike to see the	e system	status of



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■‡	9	System status "DHW"	Read	1 bit	1.011	CR-T-
Rubric:			Data type:	S	Status	
Function:		Indicates whether the system Cycle time: max. 3 minutes	em is in "Hot wate s	er" mode.		
Description:		This communication object system controller. Please r – if a VPM-W Vaillant dom – if a mixer circuit is config cylinder charging, control via the system cont not visible in this case.	t is visible when th note that estic hot water un ured as a cylinder troller is not possi	ne hot water is co it is used or r charging circuit ble. This commu	ontrolled b for the ho nication ol	y the t water bject is
		Parameters > System dim	ensioning > Hot w	ator > Hot wator	is control	led via

Parameters > System dimensioning > Hot water > Hot water is controlled via the system controller <yes> and

Parameters > Use cases > Information > I would like to see the system status of my Vaillant system (...) </

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	10	Water pressure	Read	2 bytes	9.006	CR-T-
Rubric:			Data type:	Pressu	ıre (Pa)	
Function:		Displays the current water pres Cycle time: max. 3 minutes Value range: 0–670760 Pa (0– Replacement value: NaN (not a fective.	sure of the system 6.70760 bar) a number) if the se	ı. nsor is not av	ailable o	r is de-
Description:		This communication object is v Vaillant system is to be display The requirement for this is that pressure and the corresponding	isible when the cur ed. the system contro g use case must b	rent water pro ller must disp e selected.	essure in lay the s	the ystem
		Parameters > System dimension the water pressure in the "Informand Parameters > Use cases > Info	oning > Sensors > mation/System sta ormation > I would	The system c itus" menu <y like to see the</y 	ontroller 'es> e current	shows water
		pressure of the system () <br If the system pressure exceeds to communication object 12.	> s the value of 6.707	760 bar, error	code 7 is	s sent

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■	11	KNX gateway error	Read	1 bit	1.002	CR-T-
Rubric:		Connections	Data type:	E	Boolean	
Function:		Indicates whether the KNX gat	eway has an error			
Description:		This communication object is a	always visible.			
		True = Error exists				

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	12	Last KNX gateway error	Read	1 bytes	20.*	CR-T-
Rubric:		Error	Data type:	1	byte	
Function:		Error code of the last KNX gate	eway error			
Description:		 This communication object is a System controller not found tem controller was found. 2 = Reserved for subsequent u 3 = Error in communication with tween the ise smart connect possible via USB. 4 = eBUS cable is not connected 5 = No answer from the eBUS. 6 = Value is not supported. The value. 7 = Value not permitted. The re (eBUS and KNX) LED status displays on the ise error codes 1 to 4. The corresp "LED status display in operation" 	Iways visible. d. eBUS communic lise. h the ise eBUS Add ct KNX Vaillant and ed. eBUS connecti No answer to que ere is no correspor eceived value is no smart connect KN bonding values are n".	ation is poss apter. Comm the ise eBU on not recog ry from eBUS ding eBUS t within the p X Vaillant are described in	sible, but i nunication JS Adapte inised. S. value for a permitted e allocate i chapter 4	no sys- be- er is not a KNX range d to the 4.2.2



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎≠I	13	Heating/Cooling	Read	1 bit	1.100	CR-T-
Rubric:			Data type:	Cooling	g/heating	
Function:		Indicates whether the system is Cycle time: max. 3 minutes	s in "Heating" or "Co	ooling" mode	9.	
Description:		1 = Heating (initial value) 0 = Cooling The requirement for this is the circuit which has the cooling fu has been selected. Parameters > System dimension available <yes> and Parameters > System dimension available for room heating <yes and Parameters > System dimension for circuit N is activated on the and Parameters > Use cases > Info of my Vaillant system () <v></v></yes </yes>	installation of a Vai nction activated and oning > Heat genera oning > Heating circ s> oning > Heating circ system controller < ormation > I would I	llant heat pui d the corresp ator > A Vaili cuit N > A he cuit N > The cyes> like to see the	mp, a hea bonding u lant heat cating circ cooling fu e system	ating ise case pump is uit N is unction status



Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
■₹	14	Solar thermal collector array – temperature	Read	2 bytes	9.001	CR-T-	
Rubric:			Data type:	Temper	ature (°C)	
Function:		Displays the current temperatu Cycle time: max. 3 minutes Value range: 25-155 °C Replacement value: NaN (not a	re in the solar ther a number); for valu	olar thermal collector array.			
Description:		The requirement for this is the to the system controller and se	installation of a sol lection of the corre	lar thermal sy esponding us	/stem cor e case.	nnected	
		This value is only available whe	en using a VR70/V	/R71 pump c	ontrol.		
		Ensure that the system control VPM-S is used. This communic	ler cannot be used cation object is not	to control if visible in this	a Vaillant s case.	VMS or	
		Parameters > System dimension system is available, () <yes> and</yes>	oning > Solar thern	nal system >	A solar th	nermal	
		Parameters > System dimension or VPM-S is available <no></no>	oning > Solar therr	nal system >	A Vaillan	t VMS	

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎₽	15	System flow temperature	Read	2 bytes	9.001	CR-T-
Rubric:			Data type:	Tempera	ature (°C)
Function:		Displays the system's current f Cycle time: max. 3 minutes Value range: 0-99 °C	low temperature.			
Description:		 This communication object is visible when a heating circuit and/or at least two heat generators are available and the corresponding use case has been selected. Parameters > System dimensioning > Heating circuit X > Heating circuit X is available for room heating <yes></yes> 				ast two n se-
						it X is
		Parameters > System dimension available for room heating <yes or</yes 	oning > Heating cir s>	rcuit Y > Heat	ting circui	it Y is
	Parameters > System dimensioning > Heat generator > Heat generator > available <yes> and</yes>					X is
		Parameters > System dimensio available <yes></yes>	oning > Heat gene	rator > Heat g	generator	·Y is



Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
■₹	20	Domestic hot water circuit – operation mode	Write	1 bytes	20.103	CRWT-	
Rubric:			Data type:	DHV	V mode		
Function:		Sets and reads the operation in lowing assignment of the KNX Auto = Auto LegioProtect = Not supported Normal = Day Reduced = Not supported Off/FrostProtect = Off If an unsupported mode is sent 12. Cycle time: max. 35 seconds	mode of the domestic hot water circuit. The fol- (to controller mode is used: nt, error code 6 is sent over communication object				
Description:		This communication object is v hot water.	isible when the sy	stem control	ler contro	ls the	
		Please note that – if a VPM-W Vaillant domestic – if a mixer circuit is configured cylinder charging, control via the system controller not visible in this case. Parameters > System dimension the system controller <yes> and Parameters > Use cases > Sm</yes>	c hot water unit is u l as a cylinder char er is not possible. T oning > Hot water t art control > Any u	used or rging circuit f This commun > Hot water f use case	for the ho nication of <i>is controll</i>	t water oject is <i>ed via</i>	

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	21	Domestic hot water circuit – "Auto" operation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	St	atus	
Function:		Activates the "Auto" operation whether this is active. Correspo Cycle time: max. 35 seconds	mode for the dome onds to "Auto" of d	estic hot wate ata type DHV	er circuit o V mode.	or shows
Description:		This communication object is v hot water.	visible when the system controller controls the			
		Please note that – if a VPM-W Vaillant domestic – if a mixer circuit is configured cylinder charging, control via the system controller not visible in this case. Parameters > System dimension the system controller <yes> and Parameters > Use cases > Sm</yes>	c hot water unit is u d as a cylinder char er is not possible. T oning > Hot water > part control > Any u	sed or ging circuit fo his commun Hot water <i>is</i> se case <->	or the ho ication ol s controll	t water bject is ed via



Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
■₹	22	Domestic hot water circuit – "Day" operation mode	Write	1 bit	1.011	CRWT-	
Rubric:			Data type:	5	Status		
Function:		Activates the "Day" operation whether this is active. Corresp Cycle time: max. 35 seconds	mode for the d oonds to "Norm	lomestic hot wat nal" of data type	mestic hot water circuit or shows I" of data type DHW mode.		
Description:		This communication object is hot water. Please note that – if a VPM-W Vaillant domesti – if a mixer circuit is configure cylinder charging, control via the system controll not visible in this case.	visible when th c hot water un d as a cylinder er is not possil	e system controller controls the it is used or charging circuit for the hot water ble. This communication object is			
		Parameters > System dimens the system controller <yes> and</yes>	ioning > Hot w	ater > Hot water	r is control	lled via	

and Parameters > Use cases > Smart control > Any use case </>

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎₹	23	Domestic hot water circuit – "Off" operation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	St	atus	
Function:		Activates the "Off" operation m whether this mode is active. Co Cycle time: max. 35 seconds	ode for the domes prresponds to "Off"	domestic hot water circuit or shows to "Off" of data type DHW mode.		
Description:		This communication object is v hot water. Please note that – if a VPM-W Vaillant domestic – if a mixer circuit is configured cylinder charging, control via the system controlle not visible in this case.	isible when the sys c hot water unit is u l as a cylinder chai er is not possible. T	stem controlle used or rging circuit fe This communi	er contro or the ho ication ol	ls the t water oject is
		Parameters > System dimension the system controller <yes> and Parameters > Use cases > Sm</yes>	oning > Hot water : art control > Any u	> Hot water is use case	s controli	led via
		not visible in this case. Parameters > System dimension the system controller <yes> and Parameters > Use cases > Sm</yes>	art control > Any u	> Hot water is	s control	ed via



Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
∎₹	24	Domestic hot water circuit – hot water setpoint value	Write	2 bytes	9.001	CRWT-	
Rubric:			Data type:	Temper	ature (°C	;)	
Function:		Sets and reads the current set Cycle time: max. 35 seconds Value range: 35-70 °C	point value for the	domestic hot water circuit.			
Description:		This communication object is v hot water. Please note that – if a VPM-W Vaillant domestic – if a mixer circuit is configured cylinder charging, control via the system controlle not visible in this case.	isible when the sy c hot water unit is u l as a cylinder cha er is not possible. T	le when the system controller controls the t water unit is used or a cylinder charging circuit for the hot water not possible. This communication object is			
		Parameters > System dimension the system controller <yes> and Parameters > Use cases > Sm hot water heating and heating If a value outside the value ran code 7 is sent to communication</yes>	oning > Hot water part control > I wou in my visualisation oge is written to this on object 12.	> Hot water is Id like to be a with time cor s communica	s controll hble to cc htrol <->> tion obje	led via onfigure ct, error	

Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
∎ Ż	25	Domestic hot water circuit – 1x cylinder charge	Write	1 bit	1.011	CRWT-	
Rubric:			Data type:	S	Status		
Function:		Activates or deactivates the " hot water circuit and displays Cycle time: max. 35 seconds	Dne-time cylind this status.	er charge" mod	charge" mode for the domesti		
Description:		This communication object is hot water. Please note that – if a VPM-W Vaillant domesti – if a mixer circuit is configure cylinder charging, control via the system controll not visible in this case.	visible when th c hot water uni d as a cylinder er is not possib	e system contro t is used or charging circuit ble. This commu	for the ho	ols the ot water bject is	
		Parameters > System dimens the system controller <yes> and Parameters > Use cases > Sr short-term changes to my reg</yes>	ioning > Hot wa nart control > I ular heating an	ater > Hot water always would lik d hot water cont	is control ke to carry trol () <	lled via ∕ out √>	



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■2	26	Domestic hot water circuit – circulation pump	Read	1 bit	1.011	CR-T-
Rubric:			Data type:	Sta	atus	
Function:		Displays the operating state of circuit. Cycle time: max. 3 minutes	f the circulation pump in the domestic hot water			
Description:		 This communication object is visible when the system controller controls the hot water. Please note that if a VPM-W Vaillant domestic hot water unit is used or if a mixer circuit is configured as a cylinder charging circuit for the hot water cylinder charging, Control via the system controller is not possible. This communication object is not visible in this case. 				
Parameters > System dimensioning > Hot water > Hot water is controlled the system controller <yes> and Parameters > System dimensioning > Hot water > A Vaillant VPM-W do hot water unit () <no> and</no></yes>					ed via omestic	
		Parameters > System dimension as a cylinder () <no> and Parameters > Use cases > Info of my Vaillant system () <v></v></no>	oning > Hot water > ormation > I would	> A mixer circ like to see the	uit is con e system	nfigured status



Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
■‡	27	Domestic hot water circuit – charging pump or 3-way valve	Read	1 bit	1.011	CR-T-	
Rubric:			Data type:	Sta	atus		
Function:		Displays the status of the charge water circuit. Cycle time: max. 3 minutes	rging pump or 3-way valve in the domestic hot				
Description:		This communication object is v hot water.	nis communication object is visible when the system controller controls the ot water.				
		This value is only available wh	his value is only available when using a VR70/VR71 pump control.				
		 Please note that if a VPM-W Vaillant domestic hot water unit is used or if a mixer circuit is configured as a cylinder charging circuit for the hot w cylinder charging, control via the system controller is not possible. This communication object not visible in this case. 				t water bject is	
		Parameters > System dimensioning > Hot water > Hot water is controlled via the system controller <yes> and</yes>					
		Parameters > System dimension hot water unit () <no> and</no>	oning > Hot water :	> A Vaillant V	′PM-W d	omestic	
		Parameters > System dimension as a cylinder () <no> and</no>	oning > Hot water :	> A mixer circ	cuit is cor	nfigured	
		Parameters > Use cases > Info of my Vaillant system $() < >$	ormation > I would	like to see the	e system	status	



Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
∎≵	28	Domestic hot water circuit – hot water temperature	Read	2 bytes	9.001	CR-T-	
Rubric:			Data type:	Temper	rature (°C)	
Function:		Displays the current hot water Cycle time: max. 3 minutes Value range: 0-99 °C	temperature.				
Description:		This communication object is v hot water.	is communication object is visible when the system controller controls the t water.				
		 Please note that if a VPM-W Vaillant domestic hot water unit is used or if a mixer circuit is configured as a cylinder charging circuit for the hot water cylinder charging, Control via the system controller is not possible. This communication object is not visible in this case. 					
		Parameters > System dimension the system controller <yes> and</yes>	oning > Hot water :	> Hot water i	s controlle	ed via	
		Parameters > System dimension hot water unit () <no> and</no>	m dimensioning > Hot water > A Vaillant VPM-W domestic no>				
		Parameters > System dimension as a cylinder () <no> and</no>	oning > Hot water :	> A mixer cir	cuit is con	nfigured	
		Parameters > Use cases > Info of my Vaillant system $() < \checkmark >$	ormation > I would	like to see th	ie system	status	



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	30	Ventilation – "Auto" operation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	S	Status	
Function:		Activates the "Auto" operation whether this is active. Cycle time: max. 35 seconds	mode for the v	node for the ventilation system or shows		
Description:		This communication object is v lation unit is controlled by the s	visible when a \ system controlle	/aillant recoVA er.	IR domest	tic venti-
		Parameters > System dimensi mestic ventilation unit is availa <yes> and Parameters > Use cases > Sm</yes>	oning > Ventila ble, which is co nart control > A	tion > A Vaillan ontrolled by the ny use case <√	t recoVAI system co	R do- ontroller

Ventilation – "Day" operation				(=
mode	Write	1 bit	1.011	CRWT-
	Data type:	S	Status	
Activates the "Day" operation whether this is active. Cycle time: max. 35 seconds	on mode for the ventilation system or shows			
This communication object is a lation unit is controlled by the	visible when a V system controlle	′aillant recoVAl er.	IR domest	ic venti-
Parameters > System dimension mestic ventilation unit is availa <yes> and Parameters > Use cases > Sn</yes>	ioning > Ventilat able, which is co	tion > A Vaillan ntrolled by the	t recoVAI system co	R do- ontroller
	mode Activates the "Day" operation whether this is active. Cycle time: max. 35 seconds This communication object is lation unit is controlled by the Parameters > System dimension mestic ventilation unit is availat <yes> and Parameters > Use cases > Sm</yes>	mode Data type: Activates the "Day" operation mode for the very whether this is active. Cycle time: max. 35 seconds This communication object is visible when a Very lation unit is controlled by the system controlled Parameters > System dimensioning > Ventilation mestic ventilation unit is available, which is con- <yes> and Parameters > Use cases > Smart control > Articles</yes>	mode Data type: State type: <t< td=""><td>modeData type:StatusActivates the "Day" operation mode for the ventilation system or shows whether this is active.Cycle time: max. 35 secondsCycle time: max. 35 secondsThis communication object is visible when a Vaillant recoVAIR domest lation unit is controlled by the system controller.Parameters > System dimensioning > Ventilation > A Vaillant recoVAIR mestic ventilation unit is available, which is controlled by the system control <pre>system dimensioning > Ventilation > A Vaillant recoVAIR mestic ventilation unit is available, which is controlled by the system control</pre></td></t<>	modeData type:StatusActivates the "Day" operation mode for the ventilation system or shows whether this is active.Cycle time: max. 35 secondsCycle time: max. 35 secondsThis communication object is visible when a Vaillant recoVAIR domest lation unit is controlled by the system controller.Parameters > System dimensioning > Ventilation > A Vaillant recoVAIR mestic ventilation unit is available, which is controlled by the system control <pre>system dimensioning > Ventilation > A Vaillant recoVAIR mestic ventilation unit is available, which is controlled by the system control</pre>

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	32	Ventilation – "Night" operation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	Sta	atus	
Function:		Activates the "Night" operation whether this is active. Cycle time: max. 35 seconds	mode for the vent	ilation system	n or shov	VS
Description:	scription:This communication object is visible when a Vaillant recoVAIR domest lation unit is controlled by the system controller.					
	Parameters > System dimensioning > Ventilation > A Vaillan mestic ventilation unit is available, which is controlled by the <yes> and Parameters > Use cases > Smart control > Any use case <</yes>					R do- ontroller
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
-------------	----	---	-----------------------------------	---	------------------------	--------------------
∎ Ż	33	Ventilation – 1x ventilation boost	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	S	status	
Function:		Activates or deactivates the ' the ventilation system and dis Cycle time: max. 35 seconds	One-time vent splays this stat	tilation boost" oper tus.	ration mo	de for
Descriptior	ו:					
		This communication object is lation unit is controlled by the	visible when a system contro	a Vaillant recoVAll oller.	R domest	tic venti-
		Parameters > System dimen mestic ventilation unit is avai <yes> and</yes>	sioning > Vent lable, which is	ilation > A Vaillant controlled by the	t recoVAI system co	R do- ontroller
		Parameters > Use cases > S	mart control >	Any use case <√	>	

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎≵	34	Cooling days – manual cool- ing	Write	1 bytes	5.010	CRWT-
Rubric:			Data type:	Count	er pulse	
Function:		Sets and reads the number of Cycle time: max. 35 seconds multiMATIC value range: 0-99 sensoCOMFORT value range:	days for manual co days 0-255 days	ooling.		
Description:		This communication object is v and the cooling function is activitien controller.	isible when a Vaill vated for at least o	ant heat pum ne heating ci	ip is avai rcuit in tł	lable ne sys-
		Parameters > System dimension available <yes> and Parameters > System dimension available for room heating <yea and Parameters > System dimension for circuit N is activated on the and Parameters > Use cases > Sm hot water heating and heating and Parameters > Time settings > In Number of cooling days <, If a value outside the value rand code 7 is sent to communication</yea </yes>	oning > Heat gene oning > Heating cir s> oning > Heating cir system controller part control > I wou in my visualisation Manual cooling fun ge is written to this on object 12.	rator > A Vai cuit N > A he cuit N > The yes> Id like to be a with time col action > Set c s communica	llant heat eating cir cooling to cooling to cooling tir tion obje	t pump is cuit N is function onfigure me > ct, error



Object		Name	Direction	Data width	DP type	Flags
Object		Nume	Direction		Di type	(CRWTU)
■	35	Cooling interval – start	Write	3 bytes	11.001	CRWT-
Rubric:			Data type:	I	Date	
Function:		Sets and reads the start of the Cycle time: max. 35 seconds multiMATIC value range: max. sensoCOMFORT value range:	cooling interval. 99 days between DD.MM.YY	CO35 and C	036	
Description:		This communication object is v and the cooling function is activitem controller.	isible when a Vailla vated for at least o	ant heat pur ne heating c	np is avail circuit in th	able ìe sys-
		Parameters > System dimensio available <yes> and Parameters > System dimensio</yes>	oning > Heat gener oning > Heating cir	rator > A Va rcuit N > A h	illant heat eating cire	pump is cuit N is
		available for room heating <yes< td=""><td>S></td><td></td><td></td><td></td></yes<>	S>			
		Parameters > System dimension for circuit N is activated on the and	oning > Heating cir system controller ·	cuit N > The <yes></yes>	e cooling f	unction
		Parameters > Use cases > Sm hot water heating and heating and	art control > I wou in my visualisation	ld like to be with time co	able to co ontrol <√>	nfigure
		Parameters > Time settings > I Cooling interval <->	Manual cooling fun	nction > Set	cooling tin	ne >



Object		Name	Direction	Data width	DP type	Flags
■‡	36	Cooling interval – end	Write	3 bytes	11.001	(CRWIU) CRWT-
Rubric:		-	Data type:	-	Date	
Function:		Sets and reads the end of the o Cycle time: max. 35 seconds multiMATIC value range: max. sensoCOMFORT value range:	cooling interval. 99 days between DD.MM.YY	CO36 and C	CO35	
Description:		This communication object is v and the cooling function is activitem controller.	isible when a Vailla vated for at least o	ant heat pur ne heating c	np is avail circuit in th	able ie sys-
		Parameters > System dimension available <yes> and</yes>	oning > Heat gene	rator > A Va	illant heat	pump is
		Parameters > System dimension available for room heating <yes and</yes 	oning > Heating cir s>	rcuit N > A h	eating cire	cuit N is
		Parameters > System dimension for circuit N is activated on the and	oning > Heating cir system controller	rcuit N > The <yes></yes>	e cooling f	unction
		Parameters > Use cases > Sm hot water heating and heating i and	art control > I wou in my visualisation	ld like to be with time co	able to co ontrol <√>	nfigure
		Parameters > Time settings > I Cooling interval <->	Manual cooling fun	nction > Set	cooling tin	ne >



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■	50	Energy yields – solar yield	Read	4 bytes	13.013	CR-T-
Rubric:			Data type:	Active en	ergy (kW	h)
Function:		Provides the accumulated sola Cycle time: max. 9 minutes Updating in the controller: up to	r yield which was r o 24 hr	ead during th	ne last qu	ery.
Description:		This communication object is visible when the thermal solar yield from a solar thermal system is to be displayed. The requirement for this is that the system controller must record the data and the corresponding use case must be selected				
		Parameters > System dimension system is available, () <yes> and</yes>	oning > Solar therr	nal system >	A solar th	nermal
		Parameters > Use cases > Info my heat pump and solar therm	ormation > I would al system () < _* >	like to see th	e energy	yield of

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎≠	51	Energy yields – environmental yield	Read	4 bytes	13.013	CR-T-
Rubric:			Data type:	Active en	ergy (kW	h)
Function:		Provides the accumulated envi query. Cycle time: max. 9 minutes Updating in the controller: up to	ironmental yield wh o 24 hr	nich was read	during th	ne last
Description:		This communication object is v heat pump is to be displayed. The requirement for this is that the corresponding use case m	isible when the en the system contro ust be selected.	vironment yie Iler must rece	eld of a Va	aillant ata and
		Parameters > System dimension available () <yes> and</yes>	oning > Heat gene	rator > A Vail	llant heat	pump is
		Parameters > Use cases > Info my heat pump and solar therm	ormation > I would val system () <v></v>	like to see th	e energy	yield of



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	52	Energy consumption – consumption gas for heating	Read	4 bytes	13.013	CR-T-
Rubric:			Data type:	Active e	nergy (kW	′h)
Function:		Provides the accumulated gas the last query. Cycle time: max. 9 minutes Updating in the controller: up t	o consumption for h	neating which	n was read	l during
Description:		This communication object is the controller records the data	visible if a Vaillant a and the correspo	gas boiler is nding use ca	available, ise was se	the sys-
		Parameters > System dimensi available <yes> and Parameters > System dimensi the fuel consumption (gas con and Parameters > Use cases > Infe ergy consumption () <_Y></yes>	oning > Heat gene oning > Sensors > sumption) () <ye ormation > I would</ye 	erator > A Va • The system es> • like to be al	illant gas i controller ble to see i	boiler is [.] shows the en-
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■2	53	Energy consumption – consumption gas for hot wa- ter	Read	4 bytes	13.013	CR-T-
Rubric:			Data type:	Active e	nergy (kW	′h)
Function:		Provides the accumulated gas	consumption for h	not water whi	ich was re	ad dur-

Function:	Provides the accumulated gas consumption for hot water which was read dur- ing the last query. Cycle time: max. 9 minutes
	Updating in the controller: up to 24 hr
Description:	This communication object is visible if a Vaillant gas boiler is available, the sys tem controller records the data and the corresponding use case was selected.
	Parameters > System dimensioning > Heat generator > A Vaillant gas boiler is available () <yes></yes>

Parameters > System dimensioning > Sensors > The system controller shows the fuel consumption (gas consumption) (...) <yes>

Parameters > Use cases > Information > I would like to be able to see the en-

and

and

ergy consumption (...) </>



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎≠	54	Energy consumption – con- sumption electricity for heat- ing	Read	4 bytes	13.013	CR-T-
Rubric:			Data type:	Active er	nergy (kW	h)
Function:		Provides the accumulated curring the last query. Cycle time: max. 9 minutes Updating in the controller: up to	ent consumption fo	or heating wh	nich was r	ead dur-
Description:		This communication object is v consumption (electricity consum been selected.	risible when the sym mption) and the co	stem controll prresponding	er display use case	s the has
		Parameters > System dimension the consumption (electricity con- and Parameters > Use cases > Info ergy consumption ()	oning > Sensors > nsumption) () <y ormation > I would</y 	The system ves> like to be ab	controller le to see t	shows he en-
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	55	Energy consumption – con- sumption electricity for hot water	Read	4 bytes	13.013	CR-T-
Rubric:			Data type:	Active er	nergy (kW	h)
Function:		_				
		Provides the accumulated curre during the last query. Cycle time: max. 9 minutes Updating in the controller: up to	ent consumption fo	or hot water v	which was	read
Description:		Provides the accumulated curre during the last query. Cycle time: max. 9 minutes Updating in the controller: up to This communication object is v consumption (electricity consum- been selected.	ent consumption fo o 24 hr risible when the sy mption) and the co	or hot water v stem controll rresponding	which was er display use case	s read s the has
Description:		Provides the accumulated curred during the last query. Cycle time: max. 9 minutes Updating in the controller: up to This communication object is v consumption (electricity consum- been selected. Parameters > System dimension the consumption (electricity con- and	ent consumption fo o 24 hr risible when the symption) and the co oning > Sensors > nsumption) () <y< td=""><td>or hot water v stem controll presponding <i>The system</i> ves></td><td>which was er display use case <i>controller</i></td><td>s read s the has <i>shows</i></td></y<>	or hot water v stem controll presponding <i>The system</i> ves>	which was er display use case <i>controller</i>	s read s the has <i>shows</i>



Important note:

The sensoCOMFORT and multiMATIC system controllers provide different HVAC operation modes. You will find the assignment to the KNX operation modes in the table:

KNX	sensoCOMFORT	multiMATIC
Building Protection	Off	Off
Auto	Time Controlled	Auto
Comfort	Manual	Day
Economy	Manual	Setback
Standby	Manual	Setback

The following applies to the sensoCOMFORT system controller:

- The last KNX operating mode selected which leads to activation of "Manual" controller mode, is stored internally. The "Comfort" controller mode is used initially.
- The setpoint temperatures "Day temperature heating" and "Set-back temperature heating" are used by the sensoCOMFORT system controller as data points for the KNX to set the "Manual temperature" on the controller when the KNX operating mode is switched. No controller temperature value is sent to any of these communication objects. The previously configured setpoint value is used when the ise smart connect KNX Vaillant is restarted.
- Changing the manual temperature value on the system controller does not result in any changes to the KNX.



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₽	60	Heating zone 1 – operation mode	Write	1 bytes	20.102	CRWT-
Rubric:			Data type:	HVA	C mode	
Function:		Sets and reads the operation n You will find the assignment of in the table on page 43. For communication object 63, t "Economy" value sent. Cycle time: max. 35 seconds	node of heating zo KNX operation mo the assignment is s	ne 1. odes to the s set to the las	ystem co t "Standb	ntroller y" or
Description:		This communication object is v the corresponding use case ha	isible when a heat is been selected.	ing circuit 1 i	s availab	le and
		Parameters > System dimension available for room heating <ye and</ye 	oning > Heating cir s>	cuit 1 > A he	eating circ	cuit 1 is
		Parameters > Use cases > Sm	art control > Any u	se case <√>	•	

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	61	Heating zone 1 – "Auto" oper- ation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	S	Status	
Function:		Activates the "Auto" operation is active. Corresponds to "Auto	mode for heat o" of data type	ting zone 1 or sho HVAC mode.	ows whet	her this
		Cycle time: max. 35 seconds				
Description:		This communication object is w the corresponding use case ha	visible when a as been select	heating circuit 1 ed.	is availab	ole and
		Parameters > System dimension available for room heating <ye and</ye 	oning > Heatii s>	ng circuit 1 > A h	eating cire	cuit 1 is
		Parameters > Use cases > Sm	art control > A	Any use case <⁄?	>	



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
- ₹	62	Heating zone 1 – "Day" oper- ation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	Sta	atus	
Function:		Activates the "Day" operation r active. Corresponds to "Comfo	mode for heating zone 1 or shows whether this is fort" of data type HVAC mode.			
Description:		This communication object is v the corresponding use case ha	isible when a heati s been selected.	ng circuit 1 is	s availab	le and
		Parameters > System dimension available for room heating <yes and Parameters > Use cases > Sm</yes 	oning > Heating cir s> art control > Any u	cuit 1 > A he se case < ₁ >	ating circ	cuit 1 is
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	63	Heating zone 1 – "Night" op- eration mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	Sta	atus	
Function:		Activates the "Night" operation is active. Corresponds to "Econ The last value written on comm "Economy" is used as standard	mode for heating z nomy" or "Standby' nunication object 60 1.	zone 1 or sho ' of data type) is decisive '	ows whe HVAC r for this s	her this node. tate.
D		Cycle time: max. 35 seconds	isible when a best	na aircuit 1 ia		le end
Description:		the corresponding use case ha	is been selected.	ng circuit i is	s avallap	le and
		Parameters > System dimension available for room heating <yes and</yes 	oning > Heating cir s>	cuit 1 > A he	ating circ	cuit 1 is
		Parameters > Use cases > Sm	aπ control > Any u	se case <√>		



	Name	Direction	Data width	DP type	Flags (CRWTU)
64	Heating zone 1 – "Off" opera- tion mode	Write	1 bit	1.011	CRWT-
		Data type:	Sta	atus	
	Activates the "Off" operation m active. Corresponds to "Buildin Cycle time: max. 35 seconds	ode for heating zo g Protection" of da	ne 1 or shows ata type HVA0	s whethe C mode.	er this is
	This communication object is visible when a heating circuit 1 is available and the corresponding use case has been selected.				
	Parameters > System dimension available for room heating <yes and Parameters > Use cases > Sm</yes 	oning > Heating cir s> vart control > Any u	rcuit 1 > A hea use case <⁄>	ating circ	cuit 1 is
	Name	Direction	Data width	DP type	Flags (CRWTU)
65	Heating zone 1 – day temper- ature heating	Write	2 bytes	9.001	CRWT-
		Data type:	Tempera	ature (°C))
	Sets and reads the current set zone 1. multiMATIC cycle time: max. 3 See note on page 43 for senso Value range: 5-30 °C	point value for the 5 seconds COMFORT	day temperat	ure in he	eating
	This communication object is v the corresponding use case ha	isible when a heat is been selected.	ing circuit 1 is	s availab	le and
	 Parameters > System dimensioning > Heating circuit 1 > A heating circuit 1 is available for room heating <yes> and</yes> Parameters > Use cases > Smart control > I would like to be able to configure hot water heating and heating () with time control If a value outside the value range is written to this communication object, error code 7 is sent to communication object 12. 				
	64	Name 64 Heating zone 1 – "Off" operation mactive. Corresponds to "Buildin Cycle time: max. 35 seconds This communication object is with corresponding use case has Parameters > System dimensionavailable for room heating 7 85 Name 65 Heating zone 1 – day temperature heating 85 Name 65 Heating zone 1 – day temperature heating Sets and reads the current set zone 1. multiMATIC cycle time: max. 3 See note on page 43 for sensor Value range: 5-30 °C This communication object is with corresponding use case has Parameters > System dimensionavailable for room heating Parameters > System dimensionavailable for room heating 96 This communication object is with a corresponding use case has Parameters > System dimensionavailable for room heating 97 This communication object is with a corresponding use case has Parameters > System dimensionavailable for room heating 98 This communication object is with a value outside the value range of the corresponding use case has Parameters > Use cases > Smithot water heating and heating 93 This communicationa theating of the value range	Name Direction 64 Heating zone 1 – "Off" opera- tion mode Write Data type: Activates the "Off" operation mode for heating zon active. Corresponds to "Building Protection" of dat Cycle time: max. 35 seconds This communication object is visible when a heat the corresponding use case has been selected. Parameters > System dimensioning > Heating cir available for room heating <yes> and Parameters > Use cases > Smart control > Any to ature heating 65 Heating zone 1 – day temper- ature heating 05 Heating zone 1 – day temper- ature heating 05 Sets and reads the current setpoint value for the zone 1. multiMATIC cycle time: max. 35 seconds See note on page 43 for sensoCOMFORT Value range: 5-30 °C This communication object is visible when a heat the corresponding use case has been selected. Parameters > System dimensioning > Heating cir available for room heating <yes> and Parameters > System dimensioning > Heating cir available for room heating <yes> and Parameters > Use cases > Smart control > I wou hot water heating and heating () with time control If a value outside the value range is written to this code 7 is sent to communication object 12.</yes></yes></yes>	Name Direction Data width 64 Heating zone 1 – "Off" opera- tion mode Write 1 bit Data type: Sta Activates the "Off" operation mode for heating zone 1 or show: active. Corresponds to "Building Protection" of data type HVAG Cycle time: max. 35 seconds This communication object is visible when a heating circuit 1 is the corresponding use case has been selected. Parameters > System dimensioning > Heating circuit 1 > A heat available for room heating <yes> and Parameters > Use cases > Smart control > Any use case <<> Name Direction 0ata type: Temper: Sets and reads the current setpoint value for the day temperat zone 1. Data type: MultiMATIC cycle time: max. 35 seconds See note on page 43 for sensoCOMFORT Value range: 5-30 °C This communication object is visible when a heating circuit 1 is the corresponding use case has been selected. Parameters > System dimensioning > Heating circuit 1 > A heat available for room heating <yes> and Parameters > System dimensioning > Heating circuit 1 > A heat available for room heating <yes> and Parameters > Use cases > Smart control > I would like to be at hot water heating and heating () with time control Parameters > Use cases > Smart control > I would like to be at hot water heating and heating () with time control Parameters > Use cases > Smart control > I would like to be at h</yes></yes></yes>	Name Direction Data width DP type 64 Heating zone 1 – "Off" opera- Write 1 bit 1.011 tion mode Data type: Status Activates the "Off" operation mode for heating zone 1 or shows whether active. Corresponds to "Building Protection" of data type HVAC mode. Cycle time: max. 35 seconds This communication object is visible when a heating circuit 1 is available the corresponding use case has been selected. Parameters > System dimensioning > Heating circuit 1 > A heating circuit available for room heating <yes> and 65 Heating zone 1 – day temper- Write 2 bytes 9.001 65 Heating zone 1 – day temper- Write 2 bytes 9.001 ature heating Data type: Temperature (°C 65 Heating zone 1 – day temper- Write 2 bytes 9.001 ature heating Data type: Temperature (°C 65 Heating cone 1 – day temper- Write 2 bytes 9.001 ature heating Data type: Temperature (°C Sets and reads the current setpoint value for the day temperature in he zone 1. multiMATIC cycle time: max. 35 seconds See note on page 43 for sensoCOMFORT Value range: 5-30 °C This communic</yes>



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎₽	66	Heating zone 1 – set-back temperature heating	Write	2 bytes	9.001	CRWT-
Rubric:			Data type:	Tempe	erature (°C	C)
Function:		Sets and reads the current se zone 1. Cycle time: max. 35 seconds See note on page 43 for sens Value range: 5-30 °C	etpoint value fo soCOMFORT	or the night tempe	rature in ∣	heating
Description:		This communication object is visible when a heating circuit 1 is available and the corresponding use case has been selected.				
		Parameters > System diment available for room heating <y and</y 	sioning > Heat /es>	ing circuit 1 > A h	eating cir	cuit 1 is
		Parameters > Use cases > S hot water heating and heating	mart control > g () with time	I would like to be control	able to co	onfigure
		If a value outside the value racode 7 is sent to communicate	ange is written tion object 12.	to this communication	ation obje	ect, error

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■	67	Heating zone 1 – day temper- ature cooling	Write	2 bytes	9.001	CRWT-
Rubric:			Data type:	Temper	rature (°C	C)
Function:		Sets and reads the current set heating zone 1. Cycle time: max. 35 seconds Value range: 15-30 °C	point value for the	day tempera	ture cool	ing in
Description:		This communication object is visible if a Vaillant heat pump and a heating cir- cuit 1 is available, the cooling function is activated in the system controller and the corresponding use case has been selected.				
		Parameters > System dimension available <yes> and Parameters > System dimension available for room heating <yes< td=""><td>oning > Heat gene oning > Heating cl s></td><td>erator > A Vai ircuit 1 > A he</td><td>llant heat</td><td>t pump is cuit 1 is</td></yes<></yes>	oning > Heat gene oning > Heating cl s>	erator > A Vai ircuit 1 > A he	llant heat	t pump is cuit 1 is
		and Parameters > System dimension for circuit 1 is activated on the and	oning > Heating ci system controller	rcuit 1 > <i>The</i> <yes></yes>	cooling f	unction
		Parameters > Use cases > Sm hot water heating and heating	art control > I wou () with time cont	uld like to be a rol <√>	able to co	onfigure
		If a value outside the value ran code 7 is sent to communication	ge is written to thi on object 12.	is communica	ition obje	ct, error



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■ ‡	70	Heating circuit 1 – flow tem- perature	Read	2 bytes	9.001	CR-T-
Rubric:			Data type:	Tempera	ature (°C)	1
Function:		Displays the current flow tempe Cycle time: max. 3 minutes Value range: 0-99 °C	erature in heating c	bircuit 1.		
Description:		This communication object is visible when a heating circuit 1 and a heating cir- cuit 2 is available and the corresponding use case has been selected.				
		Parameters > System dimensioning > Heating circuit 1 > A heating circuit 1 is available for room heating <yes> and</yes>				
		Parameters > System dimensioning > Heating circuit 2 > A heating circuit 2 is available for room heating <yes> and</yes>				
		Parameters > Use cases > Info of my Vaillant system $() < \checkmark >$	ormation > I would i	like to see the	e system	status
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	71	Heating circuit 1 –	Read	2 bytes	9.001	CR-T-

	setpoint flow temperature		
Rubric:		Data type:	Temperature (°C)
Function:	Displays the current setpoint flo Cycle time: max. 3 minutes Value range: 0-99 °C	ow temperature in hea	ting circuit 1.
Description:	This communication object is vi the corresponding use case ha	isible when a heating o s been selected.	circuit 1 is available and
	Parameters > System dimension available for room heating <yes and</yes 	oning > Heating circuit s>	1 > A heating circuit 1 is
	Parameters > Use cases > Info of my Vaillant system ()	rmation > I would like	to see the system status



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	72	Heating circuit 1 – pump	Read	1 bit	1.011	CR-T-
Rubric:			Data type:	St	atus	
Function:		Displays the operating state of Cycle time: max. 3 minutes	of the pump in heating circuit 1.			
Description:		This communication object is visible when a heating circuit 1 and a heating cuit 2 is available and the corresponding use case has been selected.				
		Parameters > System dimensioning > Heating circuit 1 > A heating circuit 1 available for room heating <yes> and</yes>				cuit 1 is
		Parameters > System dimensi available for room heating <ye and</ye 	oning > Heating cir s>	rcuit 2 > A he	ating circ	cuit 2 is
		Parameters > Use cases > Inf of my Vaillant system ()	ormation > I would	like to see th	e system	n status

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■≠	73	Heating circuit 1 – heating curve	Read	2 bytes	9.031	CR-T-
Rubric:			Data type:	2-byte floating	g decimal	value
Function:		Displays the value of the setpo Cycle time: max. 3 minutes Value range: 0.1-4	int heating curve	parameter.		
Description:		This communication object is visible when a heating circuit 1 is available and the corresponding use case has been selected.				
		Parameters > System dimension available for room heating <yes and</yes 	oning > Heating c s>	ircuit 1 > A hea	ating circ	uit 1 is
		Parameters > Use cases > Info of my Vaillant system $() < \checkmark >$	ormation > I would	like to see the	e system	status



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■ 2	74	Heating circuit 1 – minimum flow temperature cooling mode	Read	2 bytes	9.001	CR-T-
Rubric:			Data type:	Tempera	ature (°C))
Function:		Displays the minimum flow tem Cycle time: max. 3 minutes Value range: 7-24 °C	nperature in cooling	g mode.		
Description: The requirement for this is a heating circuit which has the cooling fur vated and the corresponding use case has been selected.				ing functi	on acti-	
		Parameters > System dimensioning > Heating circuit 1 > A heating circu available for room heating <yes> and</yes>				uit 1 is
		Parameters > System dimension for circuit 1 is activated on the and	oning > Heating cir system controller <	cuit 1 > The c <yes></yes>	cooling fu	inction
		Parameters > System dimension available <yes> and</yes>	oning > Heat gene	rator > A Vaill	lant heat	pump is
		Parameters > Use cases > Info of my Vaillant system ()	ormation > I would	like to see the	e system	status



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■ ≠	75	Heating zone 2 – operation mode	Write	1 bytes	20.102	CRWT-
Rubric:			Data type:	HVA	C mode	
Function: Description:		Sets and reads the operation in You will find the assignment of in the table on page 43. For communication object 78, t "Economy" value sent. Cycle time: max. 35 seconds This communication object is v	node of heating zone 2. KNX operation modes to the system controller the assignment is set to the last "Standby" or			ntroller y" or le and
		the corresponding use case ha	s been selected.	-		
		Parameters > System dimension available for room heating <yes and</yes 	oning > Heating cir s>	rcuit 2 > A he	eating circ	cuit 2 is
		Parameters > Use cases > Sm	art control > Any u	ise case <√>	•	

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	76	Heating zone 2 – "Auto" oper- ation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	St	atus	
Function:		Activates the "Auto" operation is active. Corresponds to "Auto Cycle time: max. 35 seconds	mode for heating z " of data type HVA	one 2 or sho C mode.	ws whet	her this
Description:		This communication object is v the corresponding use case ha	isible when a heat s been selected.	ing circuit 2 is	s availab	le and
		Parameters > System dimension available for room heating <yes and</yes 	oning > Heating cir s>	cuit 2 > A he	ating cire	cuit 2 is
		Parameters > Use cases > Sm	art control > Any u	'se case <√>		

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎≠∣	77	Heating zone 2 – "Day" oper- ation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	Sta	atus	
Function:		Activates the "Day" operation n active. Corresponds to "Econor last value written on communic omy" is used as standard. Cycle time: max. 35 seconds	node for heating zo my" or "Standby" o ation object 75 is o	one 2 or shov f data type H lecisive for th	vs wheth VAC mo iis state.	er this is de. The "Econ-
Description:		This communication object is v the corresponding use case ha	isible when a heati s been selected.	ng circuit 2 is	s availabl	le and
		Parameters > System dimension available for room heating <yes and Parameters > Use cases > Sm</yes 	oning > Heating cir s> art control > Any u	cuit 2 > A hei se case < _' >	ating circ	cuit 2 is
Object		Name	Direction	Data width	DP type	Flags (CRWTU)

Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
■₹	78	Heating zone 2 – "Night" op- eration mode	Write	1 bit	1.011	CRWT-	
Rubric:			Data type:	St	tatus		
Function:		Activates the "Night" operation is active. Corresponds to "Com Cycle time: max. 35 seconds	ration mode for heating zone 2 or shows whether this "Comfort" of data type HVAC mode. onds				
Description:		This communication object is v the corresponding use case ha	isible when a heati is been selected.	ng circuit 2 i	s availab	le and	
		Parameters > System dimension available for room heating <yes and</yes 	oning > Heating cir s>	cuit 2 > A he	eating cire	cuit 2 is	
		Parameters > Use cases > Sm	art control > Any u	se case <√>	•		



	Name	Direction	Data width	DP type	Flags (CRWTU)	
79	Heating zone 2 – "Off" opera- tion mode	Write	1 bit	1.011	CRWT-	
		Data type:	St	atus		
	Activates the "Off" operation m active. Corresponds to "Buildin Cycle time: max. 35 seconds	ode for heating zo g Protection" of da	one 2 or show ata type HVA	s whethe C mode.	er this is	
	This communication object is v the corresponding use case ha	risible when a hear as been selected.	ting circuit 2 is	s availab	le and	
	Parameters > System dimensioning > Heating circuit 2 > A heating circuit 2 is available for room heating <yes> and Parameters > Use cases > Smart control > Any use case </yes>					
	Name	Direction	Data width	DP type	Flags (CRWTU)	
80	Heating zone 2 – day temper- ature heating	Write	2 bytes	9.001	CRWT-	
		Data type:	Temper	ature (°C	C)	
	Sets and reads the current set zone 2. multiMATIC cycle time: max. 3 See note on page 43 for senso Value range: 5-30 °C	point value for the 5 seconds COMFORT	day temperat	ture in he	eating	
	This communication object is v the corresponding use case ha	risible when a heat as been selected.	ting circuit 2 is	s availab	le and	
	Parameters > System dimensioning > Heating circuit 2 > A heating circuit 2 is available for room heating <yes> and Parameters > Use cases > Smart control > I would like to be able to configure hot water heating and heating () with time control <\checkmark> If a value outside the value range is written to this communication object, error code 7 is sent to communication object 12</yes>					
	79 80	 Name 79 Heating zone 2 – "Off" operation mode Activates the "Off" operation mactive. Corresponds to "Buildin Cycle time: max. 35 seconds This communication object is with corresponding use case hat Parameters > System dimensional available for room heating Parameters > Use cases > Small Name 80 Heating zone 2 – day temperature heating Sets and reads the current set zone 2. multiMATIC cycle time: max. 3 See note on page 43 for sensor Value range: 5-30 °C This communication object is with corresponding use case hat available for room heating genote on page 43 for sensor Value range: 5-30 °C This communication object is with corresponding use case hat available for room heating genote on page 43 for sensor Value range: 5-30 °C This communication object is with corresponding use case hat available for room heating genote on page 43 for sensor Value range: 5-30 °C This communication object is with corresponding use case hat available for room heating genote of the corresponding use case hat available for room heating genote of the corresponding use case s Small 	Name Direction 79 Heating zone 2 – "Off" opera- Write tion mode Data type: Activates the "Off" operation mode for heating zon active. Corresponds to "Building Protection" of da Cycle time: max. 35 seconds This communication object is visible when a heat the corresponding use case has been selected. Parameters > System dimensioning > Heating cid available for room heating <yes> and Parameters > Use cases > Smart control > Any to available for room heating <yes> and 80 Heating zone 2 – day temper- Write ature heating Direction 80 Heating zone 2 – day temper- Write ature heating Data type: 80 Heating zone 2 – day temper- Write ature heating Data type: 80 Heating zone 2 – day temper- Write ature heating Data type: 80 Heating zone 2 – day temper- Write ature heating Data type: 80 Heating zone 2 – day temper- Write ature heating Data type: 80 Heating zone 2 – day temper- Write ature heating Data type: 80 Heating zone 2 – day temper- Write ature heating Data type: 80 Heating zone 2 – day temper- Write ature heating Data type: 80 Heating zone 2 – day temper- Write ature heating Data type: 80 This communication object is visible when a heat</yes></yes>	Name Direction Data width 79 Heating zone 2 – "Off" opera- tion mode Write 1 bit Data type: St Activates the "Off" operation mode for heating zone 2 or show active. Corresponds to "Building Protection" of data type HVA Cycle time: max. 35 seconds This communication object is visible when a heating circuit 2 is the corresponding use case has been selected. Parameters > System dimensioning > Heating circuit 2 > A her available for room heating <yes> and Parameters > Use cases > Smart control > Any use case <<> Name Direction Data width 80 Heating zone 2 – day temper- ature heating Write 2 bytes Name Direction Data width 80 Heating zone 2 – day temper- ature heating Temper Sets and reads the current setpoint value for the day temperation 2. MultiMATIC cycle time: max. 35 seconds See note on page 43 for sensoCOMFORT Value range: 5-30 °C This communication object is visible when a heating circuit 2 is the corresponding use case has been selected. Parameters > System dimensioning > Heating circuit 2 > A her available for room heating <yes> and Parameters > System dimensioning > Heating circuit 2 > A her available for room heating And Parameters > Use cases > Smart control > I would like to be a hot water heating and heating</yes></yes>	Name Direction Data width DP type 79 Heating zone 2 – "Off" opera- Write 1 bit 1.011 100 Data type: Status Status Activates the "Off" operation mode for heating zone 2 or shows whether active. Corresponds to "Building Protection" of data type HVAC mode. Cycle time: max. 35 seconds Status This communication object is visible when a heating circuit 2 is available the corresponding use case has been selected. Parameters > System dimensioning > Heating circuit 2 > A heating circuit available for room heating 80 Heating zone 2 – day temper- Write 2 bytes 9.001 80 Heating zone 2 – day temper- Write 2 bytes 9.001 ature heating Data type: Temperature (etc) Sets and reads the current setpoint value for the day temperature in the zone 2. multiMATIC cycle time: max. 35 seconds See note on page 43 for sensoCOMFORT Value range: 5-30 °C This communication object is visible when a heating circuit 2 is available the corresponding use case has been selected. Parameters > Use cases > Smart control > I would like to be able to conhot water heating and heating () with time control <	



Object		Name	Direction	Data width	DP type	Flags (CRWTU)		
∎≠	81	Heating zone 2 – set-back temperature heating	Write	2 bytes	9.001	CRWT-		
Rubric:			Data type:	Temper	ature (°C	;)		
Function:		Sets and reads the current set zone 2. multiMATIC cycle time: max. 3 See note on page 43 for senso Value range: 5-30 °C	point value for the 5 seconds DCOMFORT	e for the night temperature in heating s RT				
Description:		This communication object is visible when a heating circuit 2 is available and the corresponding use case has been selected.						
		Parameters > System dimensioning > Heating circuit 2 > A heating circuit 2 is available for room heating <yes> and Parameters > Use cases > Smart control > I would like to be able to configure</yes>						
		hot water heating and heating () with time control $< >$						
		If a value outside the value range is written to this communication object, error code 7 is sent to communication object 12.						

Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
∎≠	82	Heating zone 2 – day temper- ature cooling	Write	2 bytes	9.001	CRWT-	
Rubric:			Data type:	Temper	ature (°C	;)	
Function:		Sets and reads the current set heating zone 2. Cycle time: max. 35 seconds Value range: 15-30 °C	point value for the	day temperat	ture cooli	ing in	
Description:		This communication object is visible if a Vaillant heat pump and a heating cir- cuit 2 is available, the cooling function is activated in the system controller and the corresponding use case has been selected.					
		Parameters > System dimensioning > Heat generator > A Vaillant heat pump i available <yes> and Parameters > System dimensioning > Heating circuit 2 > A heating circuit 2 is available for room heating <ves></ves></yes>					
		and Parameters > System dimension for circuit 2 is activated on the and	oning > Heating ci system controller	rcuit 2 > The <yes></yes>	cooling f	unction	
		Parameters > Use cases > Sm hot water heating and heating	art control > I wou () with time cont	ıld like to be a rol <√>	able to co	onfigure	
		If a value outside the value ran code 7 is sent to communication	ge is written to thi on object 12.	s communica	tion obje	ct, error	



Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
■ ‡	85	Heating circuit 2 – flow tem- perature	Read	2 bytes	9.001	CR-T-	
Rubric:			Data type:	Tempera	ature (°C))	
Function:		Displays the current flow tempe Cycle time: max. 3 minutes Value range: 0-99 °C	erature in heating o	bircuit 2.			
Description:		This communication object is v the corresponding use case ha Parameters > System dimension available for room heating <yes and Parameters > Use cases > Info of my Vaillant system () <v></v></yes 	communication object is visible when a heating circuit 2 is available and corresponding use case has been selected. Interes > System dimensioning > Heating circuit 2 > A heating circuit 2 is lable for room heating <yes> Interes > Use cases > Information > I would like to see the system status y Vaillant system () </yes>				
Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
■ ‡	86	Heating circuit 2 – setpoint flow temperature	Read	2 bytes	9.001	CR-T-	
Rubric:			Data type:	Tempera	ature (°C))	
Function:		Displays the current setpoint flo Cycle time: max. 3 minutes Value range: 0-99 °C	ow temperature in	heating circui	t 2.		
Description:		This communication object is v the corresponding use case ha	isible when a heati s been selected.	ing circuit 2 is	available	e and	
		Parameters > System dimensioning > Heating circuit 2 > A heating circuit 2 is available for room heating <yes> and Parameters > Use cases > Information > I would like to see the system status</yes>					
		or my valiant system ()					



Object		Name	Direction	Data width	DP type	Flags (CRWTU)		
■₹	87	Heating circuit 2 – pump	Read	1 bit	1.011	CR-T-		
Rubric:			Data type:	Status				
Function:		Displays the operating state of the pump in heating circuit 2. Cycle time: max. 3 minutes						
Description:		This communication object is the corresponding use case ha	visible when a hea as been selected.	ting circuit 2 is	s availabl	le and		
		Parameters > System dimensioning > Heating circuit 2 > A heating circuit 2 is available for room heating <yes> and</yes>						
		Parameters > Use cases > Inf of my Vaillant system ()	ormation > I would	l like to see th	e system	ı status		
Object		Name	Direction	Data width	DP type	Flags (CRWTU)		
■2	88	Heating circuit 2 – heating curve	Read	2 bytes	9.031	CR-T-		
Rubric:			Data type:	2-byte floating	g decima	l value		
Function:		Displays the value of the setpoint heating curve parameter. Cycle time: max. 3 minutes Value range: 0.1–4						
Description:		This communication object is the corresponding use case ha	visible when a hea as been selected.	ting circuit 2 is	s availab	le and		

Parameters > System dimensioning > Heating circuit 2 > A heating circuit 2 is available for room heating <yes> and

Parameters > Use cases > Information > I would like to see the system status of my Vaillant system $(...) < \checkmark >$



Object		Name	Direction	Data width	DP type	Flags (CRWTU)		
■Z	89	Heating circuit 2 – minimum flow temperature cooling mode	Read	2 bytes	9.001	CR-T-		
Rubric:			Data type:	Tempera	ature (°C))		
Function:		Displays the minimum flow tem Cycle time: max. 3 minutes Value range: 7– 24 °C	temperature in cooling mode.					
Description:		The requirement for this is a heating circuit which has the cooling function acti- vated and the corresponding use case has been selected.						
		Parameters > System dimensioning > Heating circuit 2 > A heating circuit 2 is available for room heating <yes></yes>				uit 2 is		
Parameters > System dimensioning > Heating circ for circuit 2 is activated on the system controller <y and</y 				cuit 2 > The c <yes></yes>	cooling fu	inction		
		Parameters > System dimension available <yes> and</yes>	oning > Heat gene	rator > A Vailı	lant heat	pump is		
		Parameters > Use cases > Info of my Vaillant system () <->	ormation > I would	like to see the	e system	status		



Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
■ ₹	90	Heating zone 3 – operation mode	Write	1 bytes	20.102	CRWT-	
Rubric:			Data type:	HVA	C mode		
Function:		Sets and reads the operation n You will find the assignment of in the table on page 43. For communication object 93, t "Economy" value sent. Cycle time: max. 35 seconds	ode of heating zone 3. KNX operation modes to the system controller he assignment is set to the last "Standby" or			ntroller y" or	
Description:		This communication object is visible when a heating circuit 3 is available and the corresponding use case has been selected.					
Parameters > System dimensioning > Heating circuit 3 > A he available for room heating <yes> and</yes>				eating circ	cuit 3 is		
		Parameters > Use cases > Sm	art control > Any u	se case <√>			

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	91	Heating zone 3 – "Auto" oper- ation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	Sta	atus	
Function:		Activates the "Auto" operation mode for heating zone 3 or shows whether this is active. Corresponds to "Auto" of data type HVAC mode. Cycle time: max. 35 seconds				
Description:		This communication object is v the corresponding use case ha	isible when a heat is been selected.	ing circuit 3 is	s availab	ole and
	Parameters > System dimensioning > Heating circuit 3 > A heating circuit 3 available for room heating <yes> and</yes>					cuit 3 is
		Parameters > Use cases > Sm	art control > Any u	'se case <√>		



Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
■ ₹	92	Heating zone 3 – "Day" oper- ation mode	Write	1 bit	1.011	CRWT-	
Rubric:			Data type:	St	atus		
Function:		Activates the "Day" operation r active. Corresponds to "Comfo Cycle time: max. 35 seconds	node for heating zo rt" of data type HV	one 3 or show AC mode.	vs wheth	er this is	
Description:		the corresponding use case ha	is been selected.	ing circuit 5 is	s avallab	le anu	
		Parameters > System dimensioning > Heating circuit 3 > A heating circuit 3 is available for room heating <yes> and Parameters > Use cases > Smart control > Any use case <_Y></yes>					
			-				
Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
∎	93	Heating zone 3 – "Night" op- eration mode	Write	1 bit	1.011	CRWT-	
Rubric:			Data type:	St	atus		
Function:		Activates the "Night" operation mode for heating zone 3 or shows whether this is active. Corresponds to "Economy" or "Standby" of data type HVAC mode. The last value written on communication object 90 is decisive for this state. "Economy" is used as standard.					
Description:		This communication object is v the corresponding use case ha	isible when a heat is been selected.	ing circuit 3 is	s availab	le and	
		Parameters > System dimension available for room heating <yes and Parameters > Use acces > Sm</yes 	oning > Heating cir s>	rcuit 3 > A he	ating circ	cuit 3 is	
		raiameters > Use cases > Sm	an control > Any u	se case			



Object		Name	Direction	Data width	DP type	Flags	
■₹	94	Heating zone 3 – "Off" opera- tion mode Cycle time: max. 35 seconds	Write	1 bit	1.011	CRWT-	
Rubric:			Data type:	St	atus		
Function:		Activates the "Off" operation m active. Corresponds to "Econo last value written on communic omy" is used as standard.	mode for heating zone 3 or shows whether this is nomy" or "Standby" of data type HVAC mode. The nication object 90 is decisive for this state. "Econ-				
Description:		This communication object is visible when a heating circuit 3 is available and the corresponding use case has been selected.					
		Parameters > System dimension available for room heating <ye and Parameters > Use cases > Sm</ye 	oning > Heating ci s> nart control > Any u	rcuit 3 > A he ıse case <√>	ating cire	cuit 3 is	
Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
∎ Ż	95	Heating zone 3 – day temper-	Write	2 bvtes	9001	CRWT-	

- 4	95	Heating zone 3 – day temper- ature heating	Write	2 bytes	9001	CRWT-			
Rubric:			Data type:	Temperature (°C)					
Function:		Sets and reads the current setp zone 3. multiMATIC cycle time: max. 38 See note on page 43 for senso Value range: 5-30 °C	ooint value for the 5 seconds COMFORT	the day temperature in heating					
Description:		This communication object is visible when a heating circuit 3 is available and the corresponding use case has been selected.							
		Parameters > System dimension available for room heating <yes and</yes 	oning > Heating cir s>	rcuit 3 > A he	ating circ	uit 3 is:			
		Parameters > Use cases > Sm hot water heating and heating (art control > I wou () with time contr	ld like to be a ol <√>	able to co	nfigure			
		If a value outside the value rang code 7 is sent to communicatio	ge is written to this n object 12.	s communica	tion obje	ct, error			



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	96	Heating zone 3 – set-back temperature heating	Write	2 bytes	9.001	CRWT-
Rubric:			Data type:	Temper	ature (°C))
Function:		Sets and reads the current set zone 3. multiMATIC cycle time: max. 3 See note on page 43 for sense	point value for the 5 seconds COMFORT	night tempera	ature in h	neating
		Value range: 5-30 °C				
Description:		Parameters > System dimension available for room heating <ye and</ye 	oning > Heating cir s>	cuit 3 > A he	ating circ	cuit 3 is
		Parameters > Use cases > Sm hot water heating and heating	art control > I wou () with time contr	ld like to be a ol <√>	able to co	onfigure
		If a value outside the value ran code 7 is sent to communication	ge is written to this on object 12.	s communica	tion obje	ct, error

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■2	97	Heating zone 3 – day temper- ature cooling	Write	2 bytes	9.001	CRWT-
Rubric:			Data type:	Temper	ature (°C	;)
Function:		Sets and reads the current set heating zone 3. Cycle time: max. 35 seconds Value range: 15-30 °C	point value for the	day tempera	ture cool	ing in
Description:		This communication object is v cuit 3 is available, the cooling f the corresponding use case ha	isible if a Vaillant h unction is activate is been selected.	neat pump ar d in the syste	nd a heat em contro	ing cir- oller and
		Parameters > System dimension available <yes> and Parameters > System dimension</yes>	oning > Heat gene oning > Heating cir	rator > A Vai rcuit 3 > A he	llant heat eating circ	t pump is cuit 3 is
		available for room heating <yes< td=""><td>S></td><td></td><td></td><td></td></yes<>	S>			
		Parameters > System dimension for circuit 3 is activated on the stand	oning > Heating cii system controller <	rcuit 3 > The <yes></yes>	cooling f	unction
		Parameters > Use cases > Sm hot water heating and heating	art control > I wou () with time contr	ld like to be a rol <√>	able to co	onfigure
		If a value outside the value ran code 7 is sent to communication	ge is written to this on object 12.	s communica	tion obje	ct, error



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■≠I	100	Heating circuit 3 – flow tem- perature	Read	2 bytes	9.001	CR-T-
Rubric:			Data type:	Tempera	ature (°C))
Function:		Displays the current flow tempe Cycle time: max. 3 minutes Value range: 0-99 °C	erature in heating o	circuit 3.		
Description:		This communication object is vi the corresponding use case ha Parameters > System dimension available for room heating <yes and Parameters > Use cases > Info of my Vaillant system () </yes 	sible when a heati s been selected. oning > Heating cir s> rmation > I would	ing circuit 3 is cuit 3 > A hea like to see the	available ating circe system	e and uit 3 is status
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■ ₹	101	Heating circuit 3 – setpoint flow temperature	Read	2 bytes	9.001	CR-T-
Rubric:			Data type:	Tempera	ature (°C))
Function:		Displays the current setpoint flo Cycle time: max. 3 minutes Value range: 0-99 °C	ow temperature in	heating zone	3.	
Description:		This communication object is vi the corresponding use case ha	sible when a heati s been selected.	ng circuit 3 is	availabl	e and
		Parameters > System dimension available for room heating <yes and Parameters > Use cases > Info of my Vaillant system () </yes 	oning > Heating cir s> rmation > I would	cuit 3 > A hea like to see the	ating circl e system	uit 3 is status



Description:

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■2	102	Heating circuit 3 – pump	Read	1 bit	1.011	CR-T-
Rubric:			Data type:	St	atus	
Function:		Displays the operating state of Cycle time: max. 3 minutes	the pump in heat	ting circuit 3.		
Description:		This communication object is with the corresponding use case has	visible when a hea as been selected.	ating circuit 3 is	s availabl	e and
		Parameters > System dimensi available for room heating <ye and Parameters > Use cases > Info of my Vaillant system () <v></v></ye 	oning > Heating o s> ormation > I would	rircuit 3 > A he d like to see th	ating circ e system	uit 3 is status
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■ ₹	103	Heating circuit 3 – heating curve	Read	2 bytes	9.031	CR-T-
Rubric:			Data type:	2-byte floating	g decima	l value
Function:		Displays the value of the setpo Cycle time: max. 3 minutes Value range: 0.1-4	oint heating curve	parameter.		

the corresponding use case has been selected.

available for room heating <yes>

of my Vaillant system (...) </>

and

This communication object is visible when a heating circuit 3 is available and

Parameters > System dimensioning > Heating circuit 3 > A heating circuit 3 is

Parameters > Use cases > Information > I would like to see the system status



Object		Name	Direction	Data width	DP type	Flags
,						(CRWTU)
■₹	104	Heating circuit 3 – minimum flow temperature cooling mode	Read	2 bytes	9.001	CR-T-
Rubric:			Data type:	Tempera	ature (ºC)
Function:		Displays the minimum flow ten Cycle time: max. 3 minutes Value range: 7-24 °C	nperature in cooling	g mode.		
Description:		The requirement for this is a he vated and the corresponding u	eating circuit which se case has been	has the cool selected.	ing functi	on acti-
		Parameters > System dimension available for room heating <ye and</ye 	oning > Heating cii s>	rcuit 3 > A hea	ating circ	uit 3 is
		Parameters > System dimension for circuit 3 is activated on the and	oning > Heating cii system controller <	rcuit 3 > The d <yes></yes>	cooling fu	Inction
		Parameters > System dimension available <yes> and</yes>	oning > Heat gene	rator > A Vail	lant heat	pump is
		Parameters > Use cases > Info of my Vaillant system ()	ormation > I would	like to see the	e system	status

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎₹	201	Heat generator – flow temper- ature	Read	2 bytes	9.001	CR-T-
Rubric:			Data type:	Tempera	ature (°C)
Function:		Displays the heat generator's of Cycle time: max. 3 minutes Value range: 0-120 °C	current flow temper	rature.		
Description:		The minimum requirement for t and/or a Vaillant heat pump an	his is the installation d selection of the o	on of a Vaillai corresponding	nt gas bo g use cas	iler e.
		Parameters > System dimensio available <yes> and/or</yes>	oning > Heat gene	rator > A Vail	lant gas l	ooiler is
		Parameters > System dimensio available <yes></yes>	oning > Heat gene	rator > A Vail	lant heat	pump is
		You can configure up to eight h	neat generators.			
		Each analogue communication Example:	object has an offs	set of 5.		
		Heat generator 1 has the comm	nunication object r	number 201		
		Heat generator 2 has the comm	nunication object r	umber 206		



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■₹	202	Heat generator – error	Read	1 bit	1.002	CR-T-
Rubric:			Data type:	Во	olean	
Function:		Shows whether the heat generat Cycle time: max. 5.5 minutes True = Error exists	or has an error.			
Description:		The minimum requirement for thi and/or a Vaillant heat pump and	s is the installation selection of the c	on of a Vailla correspondir	ant gas bo ng use cas	iler se.
		Parameters > System dimension available <yes> and/or Parameters > System dimension available <yes></yes></yes>	ing > Heat genei ing > Heat genei	rator > A Vai rator > A Vai	illant gas i illant heat	boiler is pump is
		You can configure up to eight he	at generators.			
		Each analogue communication of Example:	bject has an offs	et of 5.		
		Heat generator 1 has the commu	inication object n	umber 202		
		Heat generator 2 has the commu	inication object n	umber 207		



4 Commissioning

4.1 Operation



Figure 9: ise smart connect KNX Vaillant.

1	Programming button for KNX	Switches the device to the ETS programming mode or vice versa.
2	KNX connection (twisted pair)	Left: (+/red) Right: (-/black)
3	Connection for power supply	DC 24 to 30 V, 2 W (at 24 V) Left: (+ / yellow) Right: (- / white)
4	KNX programming LED (red)	Red: Device is in ETS programming mode Yellow: See 4.2.1 / 4.2.2 for start or diagnosis code
5	LED APP (green)	Green: Normal operation Off / flashes: See 4.2.1 / 4.2.2 for start or diagnosis code
6	LED COM (yellow)	Yellow: Normal operation (brief dark phases indicate KNX telegram traffic) Off / flashes: See 4.2.1 / 4.2.2 for start or diagnosis code
7	Ethernet connection	LED 10/100 speed (green)LED link/ACT (orange) On: On: Connection to IP network Off: No connection Flashes: Data reception on IP
8	USB connection	USB connection type A establishes the connection to the sys- tem controller via the ise eBUS Adapter. Use the supplied USB cable as standard. Please note that the use of USB cables with a length of more than 3 m is generally not permitted.
9	microSD card slot	Without function.



4.2 LED status displays

The device features three status LEDs on the upper housing side and two status LEDs at the network connections.

The LED displays have different meanings

- while the device is starting and
- during operation.

4.2.1 LED status display upon device start-up

After the power supply (DC 24 V on the yellow-white connection terminal) is switched on or after a return in voltage occurs, the device indicates its status through the following LED combinations:

" <i>APP</i> " LED (green)	LED " <i>COM</i> " (yellow)	Meaning	
○ Off	<mark>○</mark> Off	No power supply – Check connections and power supply.	×
⊖ Off	Yellow	Device starting up.	\checkmark
Green	Off	Error – KNX not connected.	×
O● Green Flash slowly	Yellow	The application has not been configured yet, e.g. not yet loaded with the ETS.	×
Green	Yellow	Device booted up and ready for opera- tion.	\checkmark
O● Green Flash quickly	○ Off	Error – Please contact support. The firmware cannot be started.	×
Flash slow	● Green O Yellow /ly in an fashion	Error – Please contact support. The newly loaded firmware cannot be started. The system is trying to activate the previous firmware (invalid firmware).	×

4.2.2 LED status display in operation

Once device start-up is complete, the meaning of the LEDs is as follows:

LED " <i>APP</i> " (green)	Meaning
Green	Normal operation
○ Off	Device in start-up procedure or out of operation: Wait until the start-up for procedure is complete or check the power supply
O● Flashes at approx. 1 Hz	<u>Error:</u> Application is not parametrised or not fully parametrised. Check the device parametrisation in the ETS and carry out an application download to the device.
•O•O Three slow flashes fol- lowed by a 2 sec pause	KNX Gateway error: 3 = Error in communication with the ise eBUS Adapter. Communication be- tween the ise smart connect KNX Vaillant and the ise eBUS Adapter is not possible via USB. 4 = eBUS cable not connected. eBUS connection not recognised.
 Five slow flashes followed by a 2 sec pause 	<u>KNX Gateway error:</u> 1 = system controller not found. eBUS communication is possible, but no system controller was found.

LED "COM" (yellow)	Meaning
Yellow	<u>Normal operation:</u> KNX connection is established; no KNX telegram traffic.
Yellow with brief dark phases	<u>Normal operation:</u> KNX connection is established; KNX telegram traffic.
Off	<u>Error:</u> Connection to KNX is interrupted. Check the bus connection.



4.3 Accelerate transfer: Select transfer path *KNX-TP* or *IP*

Downloading (transmission from the ETS to the device) occurs in the programming environment of the ETS. An additional KNX data interface is not required for transfer (bus connection via bus connection terminal). The ETS can reach the device from both the IP page and the KNX TP page.

Due to considerably shorter transmission times, we recommend downloading from the device's IP page.

Connection Options
Connection Options
✓ Use direct IP connection if available
 Use project bus connections if defined Disconnect connection after usage

Figure 10: The *"Use direct KNX-IP connection if available*" setting accelerates transmission from the ETS to the device.

To transmit the ETS via the IP side, configure the setting

☑ Use direct KNX-IP connection if available.

on the ETS start page \rightarrow Bus tab \rightarrow Options entry.

4.4 Downloading the individual address of the device

- Ensure that the device and bus voltage are switched on.
- Ensure that the programming LED (4) is not illuminated.
- Press programming button (1) briefly Programming LED (4) lights up red.
- Download individual address using the ETS.

After a successful programming procedure,

- LED (4) will go out.
- The ETS shows the completed transfer with a green marking under *History* in the sidebar (nor-mally at the right edge of the window).
- The ETS sets the commissioning tick on the device for "Adr" and "Cfg".

You can now note down the individual address on the device.



4.5 Transferring application programs and configuration data

After programming the individual address, the application program, parameter settings and group address connections can be transferred to the device.

A connection to the device can be further established via IP or KNX for this purpose.

- Select "*Download* > *Download application*" to do so. The download lasts around 10 seconds with a direct IP connection or about 35 seconds if using TP.
- After the download, please wait approx. 15 seconds while the device copies the data and installs the application.
- Commissioning is complete.

4.6 Factory reset

The following individual KNX address is pre-set in the factory: 15.15.255

Following the factory reset, the device behaves as in the state of delivery. The device is unconfigured. This is indicated by the slowly flashing green APP LED (5) after the device is started up.

4.6.1 Factory reset using the programming button on the device

The device can be reset to the factory settings through a sequence during start-up.

- Make sure that the device is switched off.
- Press and hold programming button (1) and switch on the device.
- Press and hold programming button (1) until the programming LED (4), the APP LED (5) and the COM LED (6) flash slowly simultaneously.
- Briefly release the programming button (1), then press and hold it again until the programming LED (4), the APP LED (5) and the COM LED (6) flash quickly simultaneously.
- The factory reset is being carried out; release programming button.
- The device need not be restarted following a factory reset.

The factory reset can be cancelled at any time by interrupting the sequence.

4.6.2 Factory reset using the website of the device

The factory reset can also be triggered from the website of the device.

• Call up the website of the device. For this purpose, double-click the icon of the device in the *Other Devices* area in the network environment.

💣 🕑 📗 🗢 Network	
File Network	View
← → ~ ↑ 💣 > Network >	
> 💻 This PC	▲ ✓ Other Devices (14)
🗸 💣 Network	ise smart connect KNX
>	(192.108.137.74)

- Alternatively, you can also enter the IP address of the device in your browser.
- Select Device status in the upper menu bar on the website.
- Select System > Factory reset in the upper menu bar on the status page.
- Confirm the factory reset when the security prompt appears.
- The next displayed page *Factory reset* shows that the factory reset is being carried out. As soon as this is complete, the start page is loaded again.

4.7 Firmware update of the device

4.7.1 Firmware update using the device website

The ise smart connect KNX Vaillant makes it possible to install firmware updates using the device website. Select the *Firmware update* menu item under *System* on the device website to do so. The ise smart connect KNX Vaillant will now automatically search the update server for a newer version and show the current firmware version and the versions of any available updates. If a newer version is available, the associated description of the version is also displayed.

If the new firmware is incompatible with the configuration of the previous firmware, a corresponding message is displayed. A differentiation is made between the following cases here:

- 1. The new version provides new functionality. After the update, the device functions with the same range of functions as before. New functions cannot be used until an ETS download of a newer catalogue entry occurs.
- 2. The new version is completely incompatible with parametrisation in the version currently being used. An ETS download is absolutely necessary. We recommend unloading the ETS application program before the update and configuring the device with a new catalogue entry after the update.

The update can be started using the *Perform update* button. Should an incompatibility arise, the update must be confirmed again for security purposes.

4.7.2 Local firmware update without internet access

In addition to online updates, it is possible to carry out local updates without an internet connection. This is intended for devices which do not have an internet connection at their installation site and are only accessible via the local network. The firmware file can be selected locally using the *Choose File* button and then started using the *Perform update* button. In this case, the user is responsible for ensuring that the update is compatible (see chapter 4.7.3 "Compatibility of catalogue entry with firmware"). A downgrade to an older version is not possible.

4.7.3 Compatibility of catalogue entry with firmware

The version numbers in the catalogue entry and the firmware use an X.Y format. The main number, X, of the respective version indicates whether the catalogue entry and firmware are compatible. This is the case if both main numbers are identical. The second part of the version number, Y, is not relevant for compatibility. It simply indicates updates within the version.

If new firmware has a higher main number, it cannot be guaranteed that this version is compatible with an old ETS catalogue entry. For this reason, we recommend always unloading the application program from the device before the update and to then only use the new catalogue entry after that.

If the main numbers are the same, it may be necessary to use a new ETS catalogue entry for full functionality. However, this is not absolutely necessary if the new functions are not used in your project.


5 Technical data

5.1 ise smart connect KNX Vaillant

KNX medium	TP	
Commissioning mode	S-Mode (ETS)	
KNX supply	DC 21 to 30 V SELV	
KNX connection	Bus connection terminal	
External supply		
Voltage	DC 2430 V ±10%	
Connection	Bus connection terminal, preferably yellow (+)/white (–)	
Power consumption	typ. 1.2 W (with DC 24 V and connected ise eBUS Adapter) The device must be supplied with voltage by a dedicated power supply unit. Do not use the auxiliary voltage output of a KNX power supply unit which is also supplying a KNX line	
IP communication	Ethernet 10/100 BaseT (10/100 Mbit/s)	
	Use the supplied USB cable as standard. Please note that the use of USB cables with a length of more than 3 m is gener- ally not permitted.	
Supported protocols	ARP, ICMP, IGMP, UDP/IP, DHCP, AutoIP KNXnet/IP as per KNX system specifications: Core, Device Management	
microSD card	Without function	
Ambient temperature	0 °C to +45 °C	
Storage temperature	-25 °C to +70 °C	
Installation width	36 mm (2 HP)	
Installation height	90 mm	
Installation depth	74 mm	
Protection type	IP20 (compliant with EN60529)	
Protection class	III (compliant with IEC 61140)	
Test marks	KNX, CE	



5.2 ise eBUS Adapter

Operating voltage	Supply via eBUS
eBUS connection	Connection terminal
USB connection	1 x mini USB B
eBUS power consumption:	0.1 W at 24 V
USB power consumption:	0.05 W
Ambient temperature	0 °C to +45 °C
Storage temperature	-25 °C to +70 °C
Installation width	17.5 mm (1 HP)
Installation height	90 mm
Installation depth	58 mm

Test marks

CE





6 Frequently asked questions (FAQ)

- How can I find my ise smart connect KNX Vaillant's IP address? Please read about this in chapter 4.6.2 "Factory reset using the website of the device".
- Are there software updates for my ise smart connect KNX Vaillant device? Please read about this in chapter 4.7 "Firmware update of the device". Please also visit <u>www.ise.de/en/home</u> for more information.
- Why does the ETS report the error that it is not possible to write on a protected area when downloading the application program? Please ensure that your ETS version is up to date. The ise smart connect KNX Vaillant requires the current version of the ETS5.
- Why is my ise smart connect KNX Vaillant restarting? After connecting the ise smart connect KNX Vaillant with the ise eBUS adapter, a restart may be necessary to initialise the eBUS connection.
- What do I need to bear in mind if I replace the multiMATIC system controller with a sensoCOMFORT?

The setpoint value must be written on the data point of the communication objects *Day temperature heating (CO 65/80/95) or Set-back temperature heating (CO 66/81/96)* to ensure that the heating uses the required setpoint value after the system controller is replaced.



7 Troubleshooting and support

If you have a problem with your ise smart connect KNX Vaillant and require support, please send an email with a detailed error description and the log file created after the error occurred to <u>support@ise.de</u>. Refer to Chapter 7.1 "Downloading log files if a problem occurs" for information on how to download the log files from your ise smart connect KNX Vaillant.

7.1 Downloading log files if a problem occurs

If a problem occurs, the log files are required for providing support. They can be downloaded via the website of the device (see chapter 4.6.2 "Factory reset using the website of the device"). To do so, proceed as follows:

- Call up the website of the device. For this purpose, double-click the icon of the device in the *Other Devices* area in the network environment.
- Select *System* in the upper menu bar on the website.
- Select Download logfile.
- The page which opens starts downloading the log files. If this does not occur, the provided link can be used.

7.2 Status page of the ise smart connect KNX Vaillant

You can call up the device status on the website of the ise smart connect KNX Vaillant (see chapter 4.6.2 "Factory reset using the website of the device"). Among other things, it displays the installed software version and the configuration and connection status in the ise smart connect KNX Vaillant. Should an error occur, please send us a screenshot of the status page.



7.3 The ise smart connect KNX Vaillant does not work

The following error tree is intended to solve the most common problems. Should this be unsuccessful, please contact us at support@ise.de.





8 ise smart connect KNX Vaillant software licence agreement

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The object of this agreement is the ise smart connect KNX Vaillant software provided on data media or through downloads, as well as the corresponding documentation in written and electronic form.

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The licensor grants the licensee the non-exclusive, non-transferable right to use the ise smart connect KNX Vaillant software for an unlimited time in accordance with the following conditions for the purposes and applications specified in the valid version of the documentation (which shall be provided in printed format or also as online help or online documentation).

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8.4.3 Firmware and hardware

The firmware may only be installed and used on the hardware (ise smart connect KNX Vaillant) approved by the Licensor.

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Neither the software, the data backup copy nor the documentation (which shall be provided in printed format or also as online help or online documentation) may be passed on to third parties at any point in time, in whole or in part, for a fee or free of charge.

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- The software shall be free of material and manufacturing defects when turned over to the customer.
- The software shall function in accordance with the documentation included with it in the respective valid version.
- The software shall be executable on the computer stations specified by the Licensor.

The warranty shall be fulfilled with the supply of spare parts.

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The Licensor shall not be liable for damages due to loss of profit, data loss or any other financial loss resulting from use of the ise smart connect KNX Vaillant software, even if the Licensor is aware of the possibility of such damage.

This limitation of liability is valid for all the Licensee's damage claims, regardless of the legal basis. In any case, liability is limited to the purchase price of the product.

The exclusion of liability does not apply to damage caused with intent or through gross negligence on the part of the licensor. Furthermore, claims based on the statutory regulations for product liability shall remain intact.

8.9 Applicable law

This agreement is subject to the laws of the Federal Republic of Germany. The place of jurisdiction is Oldenburg.

8.10 Termination

This agreement and the rights granted herein shall end if the licensee fails to fulfil one or more provisions of this agreement or terminates this agreement in writing. The supplied ise smart connect KNX Vaillant software and the documentation (which is provided in printed form or also as online help or online documentation), including all copies, shall be returned immediately in such a case without the Licensor specifically requesting their return. No claim to reimbursement of the price paid shall be accepted in such a case.

The license to use the ise smart connect KNX Vaillant software shall expire upon termination of the agreement. The ise smart connect KNX Vaillant product must be taken out of operation in such a case. Further use of the ise smart connect KNX Vaillant without a license is precluded.

The commissioning and visualisation software must be uninstalled and all copies must be destroyed or returned to the licensor.



8.11 Subsidiary agreements and changes to the agreement

Subsidiary agreements and changes to the agreement shall only be valid in writing.

8.12 Exception

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