



# **Product Manual**

# ise smart connect KNX Saunier Duval

Order No. S-0001-017 Complete set for installation, consisting of the two system components: - ise smart connect KNX Saunier Duval and - ise eBUS Adapter

Order No. 1-0006-018 - ise smart connect KNX Saunier Duval

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 MiPro Sense-controlled Saunier Duval<sup>1</sup> heating and domestic hot water system using KNX<sup>2</sup>.
- Control of heating including cooling function and hot water 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 ETS<sup>2</sup> to the ise smart connect KNX Saunier Duval via a direct IP connection.
- The ise smart connect KNX Saunier Duval 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 Saunier Duval 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 Saunier Duval 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 Saunier Duval heating system must be controlled using the MiPro Sense system controller. Other system controllers are not compatible. The term system controller is used 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 <a href="http://www.ise.de/en/home">www.ise.de/en/home</a>.

<sup>&</sup>lt;sup>1</sup> Saunier Duval represents the Saunier Duval brand group with its brands Saunier Duval, AWB, Bulex, Glow-worm, Hermann Saunier Duval and Protherm.

<sup>&</sup>lt;sup>2</sup> ETS and KNX are registered trademarks of KNX Association cvba



# 1.2 Saunier Duval goes KNX

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

Connecting KNX and Saunier Duval opens up new possibilities:

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

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

# **1.3 Definitions and explanation of terms**

#### • ise eBUS Adapter

The ise eBUS Adapter is a system component used to connect the Saunier Duval 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 Saunier Duval, and

- the Saunier Duval 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.

#### Saunier Duval system

All components of the heating system of the Saunier Duval brand group are designated as the Saunier Duval system. One of these components must be a system controller with which the ise smart connect KNX Saunier Duval 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 the Saunier Duval brand group.

eBUS

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

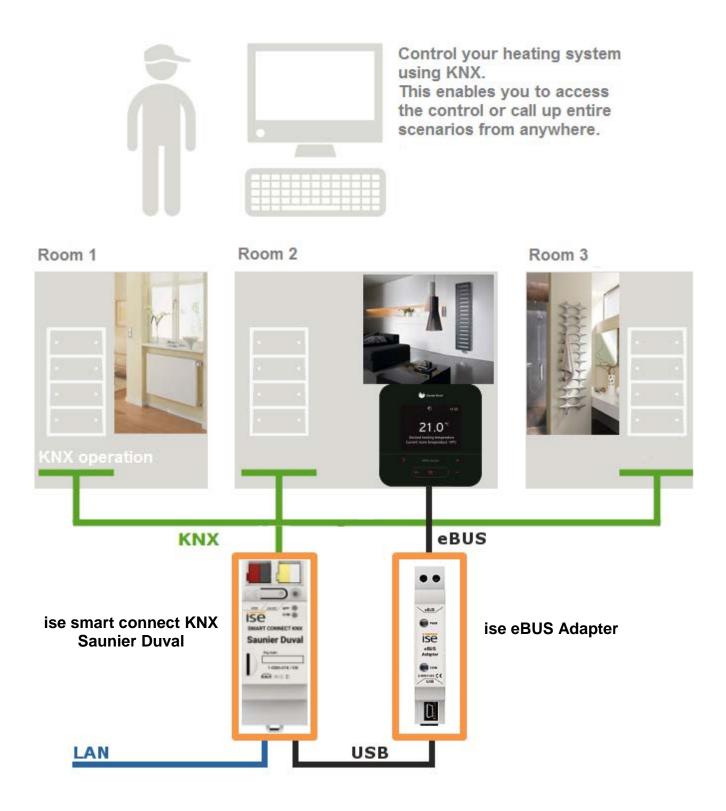
Separate addressing of ise system components for the eBUS is not necessary.

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 the Saunier Duval brand group (connection procedures, cable selection etc.) must be observed.



# 1.4 Function schematic





# 1.5 Usage scenarios – Comfort solutions with KNX and Saunier Duval

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 Saunier Duval 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 Saunier Duval, you can temporarily change the times and setpoint values for heating and hot water. After this period, your standard values apply once again.



# 1.6 Obtaining information from the Saunier Duval 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 Saunier Duval

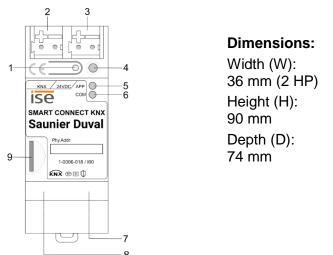


Figure 1: ise smart connect KNX Saunier Duval

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 Saunier Duval system via the ise eBUS Adapter. Use the supplied USB cable as standard. <b>Please note that the use</b> 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.
- I 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 Saunier Duval with the ise eBUS Adapter, the initialisation may require up to three minutes. During this time, the ise smart connect KNX Saunier Duval may restart.

<u>Note:</u> The use of the ise smart connect KNX Saunier Duval 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)).

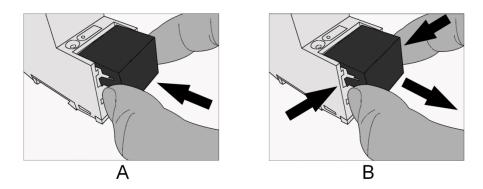


Figure 2: Fitting/removing a cover cap



# 2.4 Device design ise eBUS Adapter

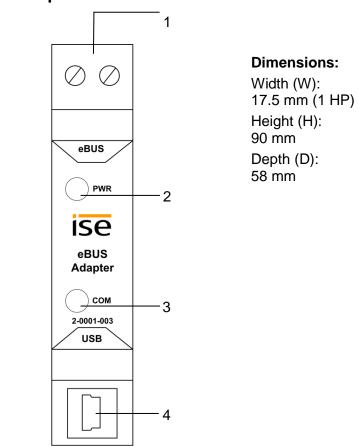


Figure 3: ise eBUS Adapter

1	eBUS connection	Important note: The maximum length of the eBUS connection cable 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 Saunier Duval 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.

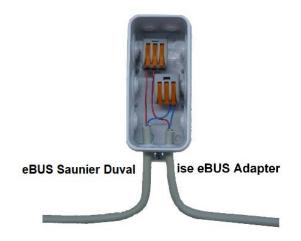


Figure 4: Junction box for the connection of the ise eBUS Adapter to the heating system.

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 Saunier Duval 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 Saunier Duval system:



Figure 5: Heating system marking.



It is recommended to attach the sticker here:

	Controlled by KNX D

Figure 6: Sticker attachment to BMU.



# 3 Configuration

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

	eparations:	For explana- tions, see
1	Installing ise eBUS Adapter. Connect the ise smart connect KNX Saunier Duval with the ise eBUS Adapter via the USB interface. Use the supplied USB cable as standard. <b>Please note that the use of USB</b> cables with a length of more than 3 m is generally not permitted.	$\rightarrow$ Chapter 2
2	Mount ise smart connect KNX Saunier Duval; connect to KNX bus connec- tion 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 Saunier Duval on the IP net- work and make settings on the IP network router where required.	
Со	nfiguration via ETS:	
and	e device can be put into operation after installing the device and connecting the b d, 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> .	
1	Create the ise smart connect KNX Saunier Duval 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 Saunier Duval or select "Obtain an IP address auto- matically (from a DHCP server)".	$\rightarrow$ Chapter 3.3
4	General parameters for setting the ise smart connect KNX Saunier Duval.	→ Chapter 3.4.1
5	Connect group addresses to communication object as usual.	$\rightarrow$ Chapter 3.5
6	The ise smart connect KNX Saunier Duval is now ready for commissioning via "Download ETS" and for testing of the functions.	



## 3.1 Configuration step 1 – Create ise smart connect KNX Saunier Duval as device in the ETS

If you have not already done so, import the ETS device application to the ise smart connect KNX Saunier Duval 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 Saunier Duval		Application:	
Manufacturer: ise GmbH		ise smart connect KNX Saunier Duval	
Order no.:	1-0006-018	Version: V2.0	
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 Saunier Duval 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 gateway 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 Saunier Duval.

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 Info	1 rmation	
Vame	4	1		
ndividual Add	Iress			
		1.1	1 ‡	Park
Description				

Figure 7: ETS device properties dialogue.

Propertie	es			>
© Settings	IP	Comments	(1) Information	
Obtain an IF Use a static IP Address	address auto IP address	omatically		
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 Saunier Duval gas boiler is available	Yes <b>No</b>	
Heat generator	A Saunier Duval heat pump is available	Yes <b>No</b>	
Solar thermal sys- tem	A solar thermal system is available, the data from which the system controller records	<b>Yes</b> No	
Solar thermal sys- tem	A Saunier Duval GHS is available	Yes <b>No</b>	Only visible if yes was the an- swer to the pre- vious point.
Heat generator	Heat generator 1 is available	Yes <b>No</b>	
Heat generator	Heat generator 2 is available	Yes <b>No</b>	
Heat generator	Heat generator 3 is available	Yes <b>No</b>	
Heat generator	Heat generator 4 is available	Yes <b>No</b>	
Heat generator	Heat generator 5 is available	Yes <b>No</b>	
Heat generator	Heat generator 6 is available	Yes <b>No</b>	



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



System dimen- sioning	Components	Entry / Selec- tion	Remarks
Sensors	The automatic date/time functions at the sys- tem's location	Yes <b>No</b>	
n	The system controller shows the fuel con- sumption (gas consumption) in the "Infor- mation" menu	Yes No	
I	The system controller shows the consump- tion (electricity consumption) in the "Infor- mation" menu	Yes <b>No</b>	
I	The system controller shows the water pres- sure in the "Information/System status" menu	Yes No	
II	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.
n	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).
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.
n	I would like to be able to see the energy consumption of my Saunier Duval system in my visualisation in order to display the current value and historical diagrams.
"	I would like to see the system status of my Saunier Duval system in my vis- ualisation in order to have constant reassurance that everything is okay.
n	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	<b>Every minute</b> Every hour Every day
"	Send date	Every minute Every hour <b>Every day</b>
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 Saunier Duval. 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 Saunier Duval 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 Saunier Duval 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 Saunier Duval 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 Saunier Duval 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:	S	Status	
Function:		Indicates whether the syste Cycle time: max. 5.5 minute		e is active.		
Description:		This communication object	is always visible.			
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b> ‡	2	Fault heating generator	Read	1 bit	1.002	CR-T-
Rubric:		Connections	Data type:	В	oolean	
Function:		Indicates whether one of the Cycle time: max. 9 minutes	e available heat g	enerators has a	an error.	
Description:		This communication object	is always visible.			
		True = Error exists				

						Flags
Object		Name	Direction	Data width	DP type	(CRWTU)
∎≵	3	Time	Read	3 bytes	10.001	CR-T-
Rubric:		Date/time	Data type:	Tin	ne of day	
Function:		Provides the Saunier Duval Cycle time: max. 3 minutes Clock interval: Every minute	/every hour/ever			
Description:		This communication object i tion functions at the system' Parameters > System dimentions at the system's location	s location. nsioning > Senso			•
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎≵	4	Date	Read	3 bytes	11.001	CR-T-
Rubric:		Date/time	Data type:		Date	
		Cycle time: max. 3 minutes Clock interval: Every minute	/everv hour/ever	y day		
Description:		This communication object i	s visible when th		e/time con	figura-
			s visible when th s location. nsioning > Senso	e automatic dat		ime func
Object	5	This communication object i tion functions at the system' Parameters > System dimen tions at the system's locatio	s visible when the s location. nsioning > Senso n <yes></yes>	e automatic dat ors > <i>The autom</i>	DP type	Flags (CRWTU)
Object ■ᢏ	5	This communication object i tion functions at the system' Parameters > System dimen <i>tions at the system's locatio</i> Name Outside temperature	s visible when the s location. nsioning > Sensonn	e automatic dat ors > <i>The autom</i> Data width 2 bytes	DP type 9.001	Flags (CRWTU) CR-T-
Object ■ᢏ Rubric:	5	This communication object i tion functions at the system' Parameters > System dimen tions at the system's locatio	s visible when the s location. nsioning > Senso n <yes> Direction Read Data type:</yes>	e automatic dat ors > <i>The autom</i> Data width 2 bytes	DP type	Flags (CRWTU) CR-T-
Description: Object It Rubric: Function: Description:	5	This communication object i tion functions at the system' Parameters > System dimen- tions at the system's locatio Name Outside temperature Temperature Provides the outside temper Cycle time: max. 3 minutes	s visible when the s location. nsioning > Senso n <yes> Direction Read Data type: rature.</yes>	e automatic dat ors > <i>The autom</i> Data width 2 bytes	DP type 9.001	Flags (CRWTU) CR-T-
Object Rubric: Function:	5	This communication object i tion functions at the system' Parameters > System dimen- tions at the system's location Name Outside temperature Temperature Provides the outside temper Cycle time: max. 3 minutes Value range > - 40 °C	s visible when the s location. nsioning > Senso n <yes> Direction Read Data type: rature. s always visible. er, error code 7 is</yes>	e automatic dat ors > <i>The autom</i> <sup>Data width 2 bytes Temp s sent to group</sup>	DP type 9.001 erature (°C	Flags (CRWTU) CR-T-
Object  Cubric:  Function:  Description:	5	This communication object i tion functions at the system' Parameters > System dimen- tions at the system's location Name Outside temperature Temperature Provides the outside temper Cycle time: max. 3 minutes Value range > - 40 °C This communication object i If the value is - 40 °C or low	s visible when the s location. nsioning > Senso n <yes> Direction Read Data type: rature. s always visible. er, error code 7 is</yes>	e automatic dat ors > <i>The autom</i> <sup>Data width 2 bytes Temp s sent to group</sup>	DP type 9.001 erature (°C	Flags (CRWTU) CR-T-
Object Chief Content Rubric: Function: Description:	5	This communication object i tion functions at the system' Parameters > System dimen- tions at the system's location Name Outside temperature Temperature Provides the outside temper Cycle time: max. 3 minutes Value range > - 40 °C This communication object i If the value is - 40 °C or low ject 12. This can indicate a communication object i	s visible when the s location. nsioning > Senso <i>n <yes></yes></i> Direction Read Data type: rature. s always visible. er, error code 7 is defect in the temp	e automatic dat ors > <i>The autom</i> Data width 2 bytes Temp s sent to group perature sensor	DP type 9.001 erature (°C	Flags (CRWTU) CR-T-
Object Cubric: Function: Description: Object		This communication object i tion functions at the system' Parameters > System dimen- tions at the system's location Name Outside temperature Temperature Provides the outside temper Cycle time: max. 3 minutes Value range > - 40 °C This communication object i If the value is - 40 °C or low ject 12. This can indicate a d	s visible when the s location. nsioning > Senso n <yes> Direction Read Data type: rature. s always visible. er, error code 7 is defect in the temp Direction</yes>	e automatic dat ors > <i>The autom</i> Data width 2 bytes Temp s sent to group Data width Data width 1 bit	DP type 9.001 erature (°C communic	Flags (CRWTU) CR-T-
Object  Cubric:  Function:  Description:  Object		This communication object i tion functions at the system' Parameters > System dimen- tions at the system's location Name Outside temperature Temperature Provides the outside temper Cycle time: max. 3 minutes Value range > - 40 °C This communication object i If the value is - 40 °C or low ject 12. This can indicate a d	s visible when the s location. Insioning > Senso <i>n</i> < <i>yes</i> > Direction Read Data type: rature. s always visible. er, error code 7 is defect in the temp Direction Read Data type:	e automatic dat ors > <i>The autom</i> Data width 2 bytes Temp Data width Data width	DP type 9.001 erature (°C communic : DP type 1.011	Flags (CRWTU) CR-T-

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎Ż	7	System status "Heating"	Read	1 bit	1.011	CR-T-
Rubric:			Data type:	:	Status	
Function:		Indicates whether the system Cycle time: max. 3 minutes	m is in "Heating"	mode.		
Description:		This communication object i corresponding use case has		heating circuit is	s available	and the
		Parameters > System dime available for room heating < and	•	ng circuit N > A	heating cir	cuit N is
		Parameters > Use cases > of my Saunier Duval system		ould like to see	the systen	n status
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>_→</b>	0	Custom status "Cooling"	Deed	4 6:4	4 0 4 4	

Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
■₹	8	System status "Cooling"	Read	1 bit	1.011	CR-T-	
Rubric:			Data type:	S	Status		
Function	:	Indicates whether the syster Cycle time: max. 3 minutes	n is in "Cooling"	mode.			
Descripti	on:	This communication object i be used for cooling.	s visible when th	ne Saunier Duval	l system is	s also to	
		The requirement for this is a vated and the corresponding	•		oling funct	ion acti-	
		Parameters > System dimer available for room heating < and	•	ng circuit N > A I	heating cir	cuit N is	
		Parameters > System dimer for circuit N is activated in th and	U U	•	e cooling i	function	
		Parameters > Use cases >I my Saunier Duval system (.		ould like to see tl	he system	status of	



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎ <b></b> Ż	9	System status "DHW"	Read	1 bit	1.011	CR-T-
Rubric:			Data type:	:	Status	
Function:		Indicates whether the system Cycle time: max. 3 minutes		r" mode.		
Description:		This communication object system controller. Please r sible if a mixer circuit is co ter cylinder charging. This	note that control vi nfigured as a cylin	ia the system co ider charging cir	ntroller is cuit for the	not pos- hot wa-
		Parameters > System dime the system controller <yes and</yes 	•	ater > Hot water	r is control	led via
		Parameters > Use cases >	Information > I w	ould like to see	the systen	n status

of my Saunier Duval system (...) </>

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎Ż	10	Water pressure	Read	2 bytes	9.006	CR-T-
Rubric:			Data type:	Pres	sure (Pa)	
Function:		Displays the current wate Cycle time: max. 3 minute Value range: 0–670760 F Replacement value: NaN fective.	es Pa (0–6.70760 bar)		available c	or is de-
Description:		This communication obje Saunier Duval system is The requirement for this i pressure and the corresp	to be displayed. is that the system co	ontroller must di	•	
		Parameters > System dir the water pressure in the and Parameters > Use cases	"Information/Syster	m status" menu	<yes></yes>	
		pressure of the system (.				
		If the system pressure ex to communication object		6.70760 bar, err	or code 7	is sent



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎ <b></b> Ż	11	KNX gateway error	Read	1 bit	1.002	CR-T-
Rubric:		Connections	Data type:	В	oolean	
Function:		Indicates whether the KNX ga	ateway has an erro	or.		
Description:		This communication object is	always visible.			
		True = Error exists				

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■‡</b>	12	Last KNX gateway error	Read	1 bytes	20.*	CR-T-
Rubric:		Error	Data type:		1 byte	
Function:		Error code of the last KNX g	pateway error			
Description:		This communication object	is always visible.			
		1 = System controller not fo tem controller was found		nunication is pos	ssible, but	no sys-
		2 = Reserved for subsequer	nt use.			
		3 = Error in communication tween the ise smart con is not possible via USB.	nect KNX Saunie			
		4 = eBUS cable is not conne	ected. eBUS con	nection not reco	gnised.	
		5 = No answer from the eBl	JS. No answer to	o query from eBl	JS.	
		6 = Value is not supported. value.	There is no corre	esponding eBUS	value for	a KNX
		7 = Value not permitted. The (eBUS and KNX)	e received value	is not within the	permitted	range
		LED status displays on the to the error codes 1 to 4. Th 4.2.2 "LED status display in	e corresponding			



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎⊅∣	13	Heating/Cooling	Read	1 bit	1.100	CR-T-
Rubric:			Data type:	Cooli	ing/heating	I
Function:		Indicates whether the sy Cycle time: max. 3 minu		or "Cooling" mo	de.	
Description	:	1 = Heating (initial value	)			
		0 = Cooling				
		The requirement for this heating circuit which has use case has been seled	the cooling functior		•	•
		Parameters > System di pump is available <yes> and</yes>		generator > A S	aunier Duv	al heat
		Parameters > System di available for room heatii and	•	ng circuit N > A	heating cir	cuit N is
		Parameters > System di for circuit N is activated and	•	•	ne cooling i	function
		Parameters > Use cases of my Saunier Duval sys		ould like to see	the systen	n status

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b> ₹	14	Solar thermal collector array – temperature	Read	2 bytes	9.001	CR-T-
Rubric:			Data type:	Temp	erature (°C	C)
Function:		Displays the current temperatu Cycle time: max. 3 minutes Value range: 25-155 °C Replacement value: NaN (not			or array.	
Description:		The requirement for this is the to the system controller and se Ensure that the system control val GHS is used. This commun	election of the ller cannot be	corresponding u used to control i	ise case. f a Saunie	
		Parameters > System dimensi system is available, () <yes> and Parameters &gt; System dimensi GHS is available <no></no></yes>		-		

Object		Name	Direction	Data width	DP type	Flags (CRWTU)			
■₹	15	System flow temperature	Read	2 bytes	9.001	CR-T-			
Rubric:			Data type:	Tempe	erature (°C	C)			
Function:		Displays the system's cu Cycle time: max. 3 minut Value range: 0-99 °C		ire.					
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 se- lected.							
		Parameters > System di available for room heatir and	•	ng circuit X > He	ating circu	ıit X is			
		Parameters > System di available for room heatir or	0	ng circuit Y > He	ating circu	uit Y is			
		Parameters > System di available <yes> and</yes>	t generato	or X is					
		Parameters > System di available <yes></yes>	mensioning > Heat g	generator > Hea	t generato	or Y is			

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b> ‡	20	Domestic hot water circuit – operation mode	Write	1 bytes	20.103	CRWT-
Rubric:			Data type:	DH	IW mode	
Function:		Sets and reads the operation lowing assignment of the KNX Auto = Auto LegioProtect = Not supported Normal = Day Reduced = Not supported Off/FrostProtect = Off If an unsupported mode is ser 12. Cycle time: max. 35 seconds	( to controller r	node is used:		
Description:		This communication object is hot water. Please note that control via th cuit is configured as a cylinde ing. This communication object	e system cont r charging circ	roller is not poss uit for the hot wa	sible if a mi	ixer cir-
		Parameters > System dimens the system controller <yes> and Parameters &gt; Use cases &gt; Sr</yes>	-			led via

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:	S	Status			
Function:		Activates the "Auto" operation whether this is active. Corresp Cycle time: max. 35 seconds						
Description:		This communication object is visible when the system controller controls the hot water.						
		Please note that control via the system controller is not possible if a mixer cir- cuit is configured as a cylinder charging circuit for the hot water cylinder charg- ing. This communication object is not visible in this case.						
		Parameters > System dimensioning > Hot water > Hot water is controlled via the system controller <yes> and</yes>						
		Parameters > Use cases > Sr	nart control > A	Any use case <≠	<b>`&gt;</b>			



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b> ‡	22	Domestic hot water circuit – "Day" operation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	ç	Status	
Function:		Activates the "Day" operation whether this is active. Corresp Cycle time: max. 35 seconds				
Description:		This communication object is hot water. Please note that control via th cuit is configured as a cylinde ing. This communication object Parameters > System dimens the system controller <yes> and Parameters &gt; Use cases &gt; Sr</yes>	e system conti r charging circu ct is not visible <i>ioning &gt; Hot w</i>	oller is not poss uit for the hot wa in this case. ater > Hot water	ible if a m ter cylinde sis control	ixer cir- er charg-
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b> ‡	23	Domestic hot water circuit – "Off" operation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	ç	Status	
Function:		Activates the "Off" operation r whether this mode is active. C Cycle time: max. 35 seconds				
Description:		This communication object is hot water.				

Please note that control via the system controller is not possible if a mixer circuit is configured as a cylinder charging circuit for the hot water cylinder charging. This communication object is not visible in this case.

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

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

Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
∎≠I	24	Domestic hot water circuit – hot water setpoint value	Write	2 bytes	9.001	CRWT-	
Rubric:			Data type:	Tempe	erature (°C	C)	
Function:		Sets and reads the current se Cycle time: max. 35 seconds Value range: 35-70 °C	tpoint value fo	or the domestic hot water circuit.		ircuit.	
Description:		This communication object is visible when the system controller controls the hot water. Please note that control via the system controller is not possible if a mixer cir- cuit is configured as a cylinder charging circuit for the hot water cylinder charg- ing. This communication object is not visible in this case.					
		Parameters > System dimens the system controller <yes> and Parameters &gt; Use cases &gt; Sr hot water heating and heating</yes>	nart control > l	would like to be	able to c	onfigure	
		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)			
<b>■</b> ‡	25	Domestic hot water circuit – 1x cylinder charge	Write	1 bit	1.011	CRWT-			
Rubric:			Data type:	S	tatus				
Function:		Activates or deactivates the " hot water circuit and displays Cycle time: max. 35 seconds		harge" mode	for the c	lomestic			
Description:		This communication object is visible when the system controller controls the hot water. Please note that control via the system controller is not possible if a mixer cir- cuit is configured as a cylinder charging circuit for the hot water cylinder charg- ing. This communication object is not visible in this case.							
		Parameters > System dimens the system controller <yes> and</yes>	Ū						
		Parameters > Use cases > Sr short-term changes to my reg							



Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
<b>■</b> ₹	26	Domestic hot water circuit – circulation pump	Read	1 bit	1.011	CR-T-	
Rubric:			Data type:	S	Status		
Function:		Displays the operating state o circuit. Cycle time: max. 3 minutes	f the circulation	n pump in the do	omestic ho	t water	
Description:		This communication object is visible when the system controller controls the hot water. Please note that control via the system controller is not possible if a mixer cir- cuit is configured as a cylinder charging circuit for the hot water cylinder charg- ing. This communication object is not visible in this case.					
		Parameters > System dimensioning > Hot water > Hot water is controlled via the system controller <yes> and</yes>					
		Parameters > System dimens as a cylinder () <no> and</no>	ioning > Hot w	rater > A mixer c	ircuit is co	nfigured	
		Parameters > Use cases > In of my Saunier Duval system (		ould like to see	the systen	n status	

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b> ‡	27	Domestic hot water circuit – charging pump or 3-way valve	Read	1 bit	1.011	CR-T-
Rubric:			Data type:	ç	Status	
Function:		Displays the status of the char water circuit. Cycle time: max. 3 minutes	ging pump or	3-way valve in th	ne domest	ic hot
Description:		This communication object is whot water. Please note that control via the		-		
		cuit is configured as a cylinder ing. This communication object	00		iter cylinde	er charg-
		<i>Parameters</i> > System dimens the system controller <yes> and</yes>	ioning > Hot w	rater > Hot water	r is control	led via
		Parameters > System dimens as a cylinder () <no> and</no>	ioning > Hot w	ater > A mixer c	ircuit is co	nfigured
		Parameters > Use cases > Inf of my Saunier Duval system (.		ould like to see	the systen	n 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:	Tempe	erature (°C	C)		
Function:		Displays the current hot water Cycle time: max. 3 minutes Value range: 0-99 °C	temperature.					
Description:		This communication object is visible when the system controller controls the hot water. Please note that control via the system controller is not possible if a mixer cir-						
		cuit is configured as a cylinder charging circuit for the hot water cylinder charg- ing. This communication object is not visible in this case.						
		Parameters > System dimensioning > Hot water > Hot water is controlled via the system controller <yes> and</yes>						
		Parameters > System dimensioning > Hot water > A mixer circuit is configured as a cylinder () <no> and</no>						
		Parameters > Use cases > In of my Saunier Duval system (		vould like to see	the systen	n status		



Object		Name	Direction	Data width	DP type	Flags (CRWTU)			
■₹	34	Cooling days – manual cool- ing	Write	1 bytes	5.010	CRWT-			
Rubric:			Data type:	Cou	nter pulse				
Function:		Sets and reads the number of Cycle time: max. 35 seconds Value range: 0-255 days	days for man	ual cooling.	cooling.				
Description:		This communication object is visible when a Saunier Duval heat pump is avail able and the cooling function is activated for at least one heating circuit in the system controller.							
		Parameters > System dimensioning > Heat generator > A Saunier Duval heat pump is available <yes> and</yes>							
		Parameters > System dimens available for room heating <ye and</ye 	•	ing circuit N > A I	heating cir	cuit N is			
		Parameters > System dimens for circuit N is activated on the and	•	•	e cooling	function			
		Parameters > Use cases > Smart control > I would like to be able to configure hot water heating and heating in my visualisation with time control <							
		Parameters > Time settings > Number of cooling days $< \cdot >$	Manual coolir	ng function > Set	cooling til	me >			
		If a value outside the value rai code 7 is sent to communicati	0	to this communic	ation obje	ct, error			

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
₽	35	Cooling interval – start	Write	3 bytes	11.001	CRWT-
Rubric:			Data type:		Date	
Function:		Sets and reads the start of t Cycle time: max. 35 second Value range: DD.MM.YY	•	ıl.		
Description:		This communication object able and the cooling functio system controller.				
		Parameters > System dime. pump is available <yes> and Parameters &gt; System dime. available for room heating &lt; and Parameters &gt; System dime. for circuit N is activated on a and Parameters &gt; Use cases &gt; hot water heating and heatin and</yes>	nsioning > Heating syes> nsioning > Heating the system control Smart control > I	g circuit N > A g circuit N > Th ller <yes> would like to be</yes>	heating cir ne cooling e able to co	cuit N is function onfigure

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎₹	36	Cooling interval – end	Write	3 bytes	11.001	CRWT-
Rubric:			Data type:		Date	
Function:		Sets and reads the end of t Cycle time: max. 35 second Value range: DD.MM.YY	•	l.		
Description:		This communication object able and the cooling functic system controller.			• •	
		Parameters > System dime pump is available <yes> and Parameters &gt; System dime available for room heating &lt; and Parameters &gt; System dime for circuit N is activated on and Parameters &gt; Use cases &gt; hot water heating and heating and Parameters &gt; Time settings Cooling interval </yes>	ensioning > Heatin <yes> ensioning &gt; Heatin the system contro Smart control &gt; I ing in my visualisa</yes>	g circuit N > A g circuit N > Th ller <yes> would like to be tion with time c</yes>	heating cir he cooling : e able to co control < ⁄ >	cuit N is function onfigure

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■‡</b>	50	Energy yields – solar yield	Read	4 bytes	13.013	CR-T-
Rubric:			Data type:	Active e	energy (kW	′h)
Function:		Provides the accumulated solar yield which was read during the last Cycle time: max. 9 minutes Updating in the controller: up to 24 hr		the last qu	iery.	
Description:		This communication object is thermal system is to be displa The requirement for this is the the corresponding use case r	ayed. at the system co	ontroller must re		
		Parameters > System dimensioning > Solar thermal system > A sol system is available, () <yes> and</yes>				hermal
		Parameters > Use cases > In my heat pump and solar then			the 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:	ubric: Data type: Active energy (kW		′h)			
Function:		Provides the accumulated query. Cycle time: max. 9 minutes Updating in the controller:	3	ld which was re	ad during t	he last
Description:		This communication object nier Duval heat pump is to The requirement for this is the corresponding use cas	be displayed. that the system co	ontroller must re		
		1 0				



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎ <b>Z</b>	52	Energy consumption – consumption gas for heating	Read	4 bytes	13.013	CR-T-
Rubric:			Data type:	Active e	energy (kW	′h)
Function:		Provides the accumulated gas the last query. Cycle time: max. 9 minutes Updating in the controller: up t	·	r heating whic	ch was read	d during
Description:		This communication object is the system controller records lected.		•		
		Parameters > System dimens boiler is available <yes> and Parameters &gt; System dimens the fuel consumption (gas cor and Parameters &gt; Use cases &gt; Int ergy consumption () </yes>	ioning > Sensors nsumption) () <	s > The syster syes>	n controllei	shows
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■≠	53	Energy consumption – consumption gas for hot wa- ter	Read	4 bytes	13.013	CR-T-
Rubric:			Data type:	Active e	energy (kW	′h)
Function:		Provides the accumulated gas	s consumption fo	r hot water wh	nich was re	ad dur-

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎ <b>≓</b>	53	Energy consumption – consumption gas for hot wa- ter	Read	4 bytes	13.013	CR-T-
Rubric:			Data type:	Active e	energy (kW	′h)
Function:		Provides the accumulated gas ing the last query. Cycle time: max. 9 minutes Updating in the controller: up		not water wh	ich was re	ad dur-
Description:		This communication object is the system controller records lected.		•		
		<i>Parameters</i> > System dimens boiler is available () <yes> and</yes>	ioning > Heat gene	erator > A Sa	aunier Duv	al gas
		Parameters > System dimens the fuel consumption (gas cor and	-	-	n controllei	r shows
		Parameters > Use cases > In ergy consumption () <√>	formation > I would	l like to be al	ble to see	the en-

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 e	energy (kW	/h)		
Function:		Provides the accumulated cur ing the last query. Cycle time: max. 9 minutes Updating in the controller: up		for heating v	vhich was ı	read dur-
Description:		This communication object is consumption (electricity consubeen selected.		•		
		Parameters > System dimens the consumption (electricity co and	•		n controllei	r shows
		Parameters > Use cases > Ini ergy consumption () <√>	formation > I woul	d like to be a	ble to see	the 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 e	energy (kW	/h)
Function:		Provides the accumulated cur during the last query. Cycle time: max. 9 minutes Updating in the controller: up		n for hot wate	r which wa	s read
Description:		This communication object is consumption (electricity consubeen selected.		•		
		Parameters > System dimens the consumption (electricity co and	0		n controlle	r shows
		Parameters > Use cases > In ergy consumption $() < \checkmark >$	formation > I wo	uld like to be a	ble to see	the en-



#### Important note:

The MiPro Sense system controller provides different HVAC operation modes. You will find the assignment to the KNX operation modes in the table:

KNX	MiPro Sense	
Building Protection	Off	
Auto	Time Controlled	
Comfort	Manual	
Economy	Manual	
Standby	Manual	

The following applies to the 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 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 Saunier Duval 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:	HV	AC mode	
Function:		Sets and reads the operation You will find the assignment of in the table on page 42. For communication object 63, "Economy" value sent. Cycle time: max. 35 seconds	of KNX operatio	on modes to the	•	
Description:		This communication object is the corresponding use case h		•	l is availab	le and
		Parameters > System dimens available for room heating <y and</y 	•	ng circuit 1 > A I	heating circ	cuit 1 is
		Parameters > Use cases > Si	mart control > A	Any use case <≠	<b>/&gt;</b>	

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 Cycle time: max. 35 seconds		0	nows whet	her this
Description:		This communication object is when the corresponding use case has		•	is availat	ole and
		Parameters > System dimensi available for room heating <ye and</ye 	es>		0	cuit 1 is
		Parameters > Use cases > Srr	nart control > A	Any use case <√	<b>`&gt;</b>	

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b> ‡	62	Heating zone 1 – "Day" oper- ation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	ç	Status	
Function:		Activates the "Day" operation active. Corresponds to "Comfo		•	ows wheth	ner this is
		Cycle time: max. 35 seconds				
Description:		This communication object is the corresponding use case ha			is availat	ole and
		Parameters > System dimens available for room heating <ye and</ye 		ng circuit 1 > A h	neating cir	cuit 1 is
		Parameters > Use cases > Sn	nart control > A	Any use case <≠	<b>&gt;</b>	
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:	ç	Status	
Function:		Activates the "Night" operation is active. Corresponds to "Eco The last value written on comr "Economy" is used as standar	nomy" or "Stai munication obje	ndby" of data typ	be HVAC	mode.
		Cycle time: max. 35 seconds				
Description:		This communication object is the corresponding use case has		•	is availat	ole and
		Parameters > System dimens available for room heating <ye and</ye 	•	ng circuit 1 > A ł	neating cir	cuit 1 is
		Parameters > Use cases > Sn				

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎ <b>≠</b> ∣	64	Heating zone 1 – "Off" opera- tion mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	S	status	
Function:		Activates the "Off" operation m active. Corresponds to "Buildin Cycle time: max. 35 seconds				
Description:		This communication object is w the corresponding use case ha Parameters > System dimensi available for room heating <ye and Parameters &gt; Use cases &gt; Sm</ye 	as been select oning > Heatii s>	red. ng circuit 1 > A h	eating cir	
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎≠I	65	Heating zone 1 – day temper- ature heating	Write	2 bytes	9.001	CRWT-
Rubric:		-	Data type:	Tempe	erature (°C	C)
Function:		Sets and reads the current set zone 1. See note on page 42 for MiPro Value range: 5-30 °C		r the day tempera	ature in h	eating
Description:		This communication object is we the corresponding use case has been been been been been been been bee			is availat	le and
		Parameters > System dimensi available for room heating <ye and Parameters &gt; Use cases &gt; Sm hot water heating and heating If a value outside the value ran</ye 	s> hart control > I () with time	vould like to be control <√>	able to c	onfigure



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:	Temp	erature (°C	C)	
Function:		Sets and reads the current se zone 1. See note on page 42 for MiP Value range: 5-30 °C		the night tempe	the night temperature 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 dimensioning > Heating circuit 1 > A heating circuit 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, encode 7 is sent to communication object 12.					

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:	Tempe	erature (°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	ature cool	ing in
Description:	This communication object is visible if a Saunier Duval heat pump and a heat ing circuit 1 is available, the cooling function is activated in the system control ler and the corresponding use case has been selected.					
	Parameters > System dimensioning > Heat generate pump is available <yes> and Parameters &gt; System dimensioning &gt; Heating circui available for room heating <yes> and</yes></yes>					
		Parameters > System dimensi for circuit 1 is activated on the and			e cooling t	function
		Parameters > Use cases > Sn hot water heating and heating			able to co	onfigure
		If a value outside the value ran code 7 is sent to communication	-	s communica	ation obje	ect, error



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎ <b></b> Z	70	Heating circuit 1 – flow tem- perature	Read	2 bytes	9.001	CR-T-
Rubric:			Data type:	Temp	erature (°C	C)
Function:		Displays the current flow temp Cycle time: max. 3 minutes Value range: 0-99 °C	perature in hea	ting circuit 1.		
Description:		This communication object is cuit 2 is available and the corr		Ŷ.		ating cir-
		Parameters > System dimens available for room heating <yo and Parameters &gt; System dimens</yo 	es> sioning > Heatil	-	-	
	71	available for room heating <yo and Parameters &gt; Use cases &gt; In of my Saunier Duval system ( Name Heating circuit 1 –</yo 	formation > I w	Data width 2 bytes	the systen	Flags (CRWTU)
	71	and Parameters > Use cases > In of my Saunier Duval system ( Name	formation > I w ′) <√>	Data width	DP type	
■₹	71	and Parameters > Use cases > In of my Saunier Duval system ( <sup>Name</sup> Heating circuit 1 –	formation > I w ′) <√>	Data width 2 bytes	DP type	Flags (CRWTU) CR-T-
Object ■≠ Rubric: Function:	71	and Parameters > Use cases > In of my Saunier Duval system ( <sup>Name</sup> Heating circuit 1 –	formation > I w () Direction Read Data type:	Data width 2 bytes Temp	DP type 9.001 erature (°C	Flags (CRWTU) CR-T-
■ <b>↓</b> Rubric:	71	and Parameters > Use cases > Int of my Saunier Duval system ( Name Heating circuit 1 – setpoint flow temperature Displays the current setpoint f Cycle time: max. 3 minutes	formation > I w () < /> Direction Read Data type: flow temperatur	Data width 2 bytes Tempore in heating circond heating circuit 1	DP type 9.001 erature (°C cuit 1.	Flags (CRWTU) CR-T-



Object		Name	Direction	Data width	DP type	Flags (CRWTU)		
■₹	72	Heating circuit 1 – pump	Read	1 bit	1.011	CR-T-		
Rubric:			Data type:	\$	Status			
Function:		Displays the operating st Cycle time: max. 3 minut	• •	heating circuit 1.				
Description:		This communication object is visible when a heating circuit 1 and a heating ci cuit 2 is available and the corresponding use case has been selected.						
		Parameters > System di available for room heatin and	•	ng circuit 1 > A I	neating cire	cuit 1 is		
		Parameters > System dimensioning > Heating circuit 2 > A heating circuit 2 is available for room heating <yes> and</yes>						
		Parameters > Use cases of my Saunier Duval sys		ould like to see	the systen	n status		

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b>	73	Heating circuit 1 – heating curve	Read	2 bytes	9.031	CR-T-
Rubric:			Data type:	2-byte floatir	ng decima	al value
Function:		Displays the value of the setp Cycle time: max. 3 minutes Value range: 0.1-4	point heating curv	/e parameter.		
Description:		This communication object is the corresponding use case h			is availab	le and
		Parameters > System dimens available for room heating <y and Parameters &gt; Use cases &gt; In of my Saunier Duval system</y 	res> iformation > I wo		C	
		, , , , , , , , , , , , , , , , , , ,	· /			



Object		Name	Direction	Data width	DP type	Flags (CRWTU)		
■≠	74	Heating circuit 1 – minimum flow temperature cooling mode	Read	2 bytes	9.001	CR-T-		
Rubric:			Data type:	Temp	erature (°C	C)		
Function:		Displays the minimum flov Cycle time: max. 3 minute Value range: 7-24 °C	-	ooling mode.				
Description:		The requirement for this is a heating circuit which has the cooling function activated and the corresponding use case has been selected.						
		Parameters > System dim available for room heating and	•	ng circuit 1 > A ł	neating cire	cuit 1 is		
		Parameters > System dimensioning > Heating circuit 1 > The cooling function for circuit 1 is activated on the system controller <yes> and</yes>						
		Parameters > System dimensioning > Heat generator > A Saunier Duval heat pump is available <yes> and</yes>						
		Parameters > Use cases : of my Saunier Duval syste		ould like to see	the systen	n status		

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎ <b></b> Z	75	Heating zone 2 – operation mode	Write	1 bytes	20.102	CRWT-
Rubric:			Data type:	HV	AC mode	
Function: Description:		Sets and reads the operation r You will find the assignment of in the table on page 42. For communication object 78, "Economy" value sent. Cycle time: max. 35 seconds This communication object is w the corresponding use case ha Parameters > System dimensi	<sup>:</sup> KNX operation the assignmer visible when a tas been select	n modes to the at is set to the la heating circuit 2 ed.	st "Standt 2 is availab	oy" or Ile and
		available for room heating <ye< td=""><td>•</td><td>5</td><td>0</td><td></td></ye<>	•	5	0	
Object		and Parameters > Use cases > Sm Name	Direction	ny use case <r< td=""><td>&gt; DP type</td><td>Flags</td></r<>	> DP type	Flags
Object	76	Parameters > Use cases > Srr	Direction	-		Flags (CRWTU) CRWT-
	76	Parameters > Use cases > Sm	Direction	Data width	DP type	(CRWTU)
	76	Parameters > Use cases > Sm Name Heating zone 2 – "Auto" oper-	Direction	Data width	DP type	(CRWTU)
∎ <b></b> ₹	76	Parameters > Use cases > Sm Name Heating zone 2 – "Auto" oper-	Direction Write Data type: mode for heat	Data width 1 bit ing zone 2 or sh	<sup>DP type</sup> 1.011 Status	(CRWTU) CRWT-
■ <b>↓</b> Rubric:	76	Parameters > Use cases > Sm Name Heating zone 2 – "Auto" oper- ation mode Activates the "Auto" operation is active. Corresponds to "Auto"	Direction Write Data type: mode for heat o" of data type visible when a	Data width 1 bit ing zone 2 or sh HVAC mode. heating circuit 2	<sup>DP type</sup> 1.011 Status nows whet	(CRWTU) CRWT-
Rubric:	76	Parameters > Use cases > Sm         Name         Heating zone 2 – "Auto" operation mode         Activates the "Auto" operation is active. Corresponds to "Auto Cycle time: max. 35 seconds         This communication object is water	Direction Write Data type: mode for heat o" of data type visible when a as been select coning > Heatin s>	Data width 1 bit ing zone 2 or sh HVAC mode. heating circuit 2 ed. <i>ng circuit</i> 2 > A h	DP type 1.011 Status nows whet is availab	(CRWTU) CRWT- her this

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:	5	Status	
Function:		Activates the "Day" operation active. Corresponds to "Econo last value written on communi- omy" is used as standard. Cycle time: max. 35 seconds	my" or "Standby"	of data type	HVAC mo	ode. The
Description:		This communication object is the corresponding use case has		ating circuit 2	is availat	le and
		Parameters > System dimens available for room heating <ye and Parameters &gt; Use cases &gt; Sn</ye 	?S>		-	cuit 2 is
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
Object ■ <b>↓</b>	78	Name Heating zone 2 – "Night" op- eration mode	Direction	Data width <b>1 bit</b>	DP type 1.011	Flags (CRWTU) CRWT-
	78	Heating zone 2 – "Night" op-		1 bit		(CRWTU)
<b>■</b> #	78	Heating zone 2 – "Night" op-	Write Data type: mode for heating	1 bit S zone 2 or sł	1.011 Status nows whe	(CRWTU) CRWT-
■ <b>↓</b> Rubric:	78	Heating zone 2 – "Night" op- eration mode Activates the "Night" operation is active. Corresponds to "Cor	Write Data type: mode for heating nfort" of data type visible when a hea	1 bit S J zone 2 or sł HVAC mode	1.011 Status nows whe e.	(CRWTU) CRWT-

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b> ‡	79	Heating zone 2 – "Off" opera- tion mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	St	tatus	
Function:		•	•	ode for heating zone 2 or shows whether this is g Protection" of data type HVAC mode.		
Description:		This communication object is we the corresponding use case has Parameters > System dimensi available for room heating <ye and Parameters &gt; Use cases &gt; Sm</ye 	as been selected. oning > Heating cl s>	ircuit 2 > A he	ating cire	
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b> ‡	80	Heating zone 2 – day temper- ature heating	Write	2 bytes	9.001	CRWT-
Rubric:			Data type:	Tempei	rature (°C	C)
Function:		Sets and reads the current set zone 2. See note on page 42 for MiPro Value range: 5-30 °C		day tempera	ture in he	eating
Description:		This communication object is we the corresponding use case has been been been been been been been bee		ting circuit 2 i	s availab	le and
		Parameters > System dimensi available for room heating <ye and Parameters &gt; Use cases &gt; Sm hot water heating and heating</ye 	s> hart control > I wou () with time cont	ıld like to be a rol <√>	able to co	onfigure
		If a value outside the value rar code 7 is sent to communication	•	is communica	ilion obje	ct, error



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:	Tempe	erature (°C	C)
Function:		Sets and reads the current se zone 2. See note on page 42 for MiP Value range: 5-30 °C	•	the night tempe	erature in I	heating
Description:		This communication object is the corresponding use case I		•	is availat	ole and
		Parameters > System dimen available for room heating <y and Parameters &gt; Use cases &gt; S hot water heating and heating</y 	res> mart control > I	would like to be		
		If a value outside the value racode 7 is sent to communication	•	o this communic	ation obje	ect, error
Object		Name	Direction	Data width	DP type	Flags

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:	Tempera	ature (°C	<b>;</b> )
Function:		Sets and reads the current setp heating zone 2. Cycle time: max. 35 seconds Value range: 15-30 °C	point value for the o	or the day temperature cooling in		
Description: This communication object is visible if a Saunier Duval heat pump and ing circuit 2 is available, the cooling function is activated in the system of ler and the corresponding use case has been selected.						
	Parameters > System dimensioning > Heat gene pump is available <yes> and</yes>				ınier Duv	al heat
		Parameters > System dimension available for room heating <yes and</yes 	•	cuit 2 > A he	ating cire	cuit 2 is
		Parameters > System dimension for circuit 2 is activated on the stand	•		cooling f	unction
		Parameters > Use cases > Sm hot water heating and heating (			ble to co	onfigure
		If a value outside the value ran code 7 is sent to communicatio	•	communicat	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:	Temp	erature (°C	C)
Function:		Displays the current flow temp Cycle time: max. 3 minutes Value range: 0-99 °C	perature in hea	ting circuit 2.	,	
Description:		This communication object is the corresponding use case h			2 is availab	le and
		Parameters > System dimens available for room heating <y and Parameters &gt; Use cases &gt; In</y 	es>		Ū	
			101111111011 > 1 W	oulo like lo see	me svsien	I SIAILIS
		of my Saunier Duval system (				7 oluluo
Object				Data width	DP type	Flags
	86	of my Saunier Duval system (	() <⁄>			Flags (CRWTU)
■₹	86	of my Saunier Duval system ( Name Heating circuit 2 –	() <√> Direction	Data width 2 bytes	DP type	Flags (CRWTU) CR-T-
Object ■ᢏ Rubric: Function:	86	of my Saunier Duval system ( Name Heating circuit 2 –	() <√> Direction Read Data type:	Data width 2 bytes Temp	DP type 9.001 erature (°C	Flags (CRWTU) CR-T-
Rubric:	86	of my Saunier Duval system ( Name Heating circuit 2 – setpoint flow temperature Displays the current setpoint f Cycle time: max. 3 minutes	() <√> Direction Read Data type: flow temperatue visible when a	Data width 2 bytes Temp re in heating circ heating circuit 2	DP type 9.001 erature (°C cuit 2.	Flags (CRWTU) CR-T-
Rubric:	86	of my Saunier Duval system ( Name Heating circuit 2 – setpoint flow temperature Displays the current setpoint flow Cycle time: max. 3 minutes Value range: 0-99 °C This communication object is	() <√> Direction Read Data type: flow temperatur visible when a bas been select sioning > Heatir	Data width 2 bytes Temp re in heating circ heating circuit 2 ed.	DP type 9.001 erature (°C cuit 2. 2 is availab	Flags (CRWTU) CR-T-



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b> ‡	87	Heating circuit 2 – pump	Read	1 bit	1.011	CR-T-
Rubric:			Data type:	S	Status	
Function:		Displays the operating sta Cycle time: max. 3 minute		neating circuit 2.		
Description:		This communication obje the corresponding use ca		•	is availab	le and
		Parameters > System dir available for room heating and Parameters > Use cases of my Saunier Duval syst	g <yes> &gt; Information &gt; I w</yes>		Ū	
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b> ‡	88	Heating circuit 2 – heating curve	Read	2 bytes	9.031	CR-T-

Rubric:	Da	ata type:	2-byte floating decimal 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 visit	ble when a hea	ating circuit 2 is available and

:	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></yes>

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

and



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■4	89	Heating circuit 2 – minimum flow temperature cooling mode	Read	2 bytes	9.001	CR-T-
Rubric:			Data type:	Tempe	erature (°C	;)
Function:		Displays the minimum flov Cycle time: max. 3 minute Value range: 7– 24 °C	•	poling mode.		
Description:		The requirement for this is vated and the correspond	•		oling funct	ion acti-
		Parameters > System dim available for room heating and	•	ng circuit 2 > A h	neating cire	cuit 2 is
		Parameters > System dim for circuit 2 is activated or and	•	•	e cooling f	unction
		<i>Parameters &gt; System dim pump is available <yes></yes></i> and	ensioning > Heat g	generator > A Sa	aunier Duv	al heat
		Parameters > Use cases : of my Saunier Duval syste		ould like to see	the systen	n status

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■‡</b>	90	Heating zone 3 – operation mode	Write	1 bytes	20.102	CRWT-
Rubric:			Data type:	HV	AC mode	
Function: Description:		Sets and reads the operation r You will find the assignment of in the table on page 42. For communication object 93, "Economy" value sent. Cycle time: max. 35 seconds This communication object is w the corresponding use case ha	<sup>:</sup> KNX operatic the assignmer <i>r</i> isible when a	n modes to the nt is set to the la heating circuit 3	st "Standt	oy" or
		Parameters > System dimensi	•	ng circuit $3 > A$ i	neating cire	cuit 3 is
Object		available for room heating <ye and Parameters &gt; Use cases &gt; Sm</ye 	nart control > A	-		Flogs
Object		and		Any use case <r< td=""><td>DP type</td><td>Flags (CRWTU)</td></r<>	DP type	Flags (CRWTU)
Object ■ <b>↓</b>	91	and Parameters > Use cases > Sm	Direction	-		
	91	and Parameters > Use cases > Sm Name Heating zone 3 – "Auto" oper-	Direction	Data width	DP type	(CRWTU)
<b>■‡</b>	91	and Parameters > Use cases > Sm Name Heating zone 3 – "Auto" oper-	Direction Write Data type: mode for heat	Data width 1 bit ing zone 3 or sh	<sup>DP type</sup> 1.011 Status	(CRWTU) CRWT-
■ <b>之</b>   Rubric:	91	and Parameters > Use cases > Sm Name Heating zone 3 – "Auto" oper- ation mode Activates the "Auto" operation is active. Corresponds to "Auto"	Direction Direction Write Data type: mode for heat o" of data type	Data width 1 bit ing zone 3 or sh HVAC mode. heating circuit 3	<sup>DP type</sup> 1.011 Status nows whet	(CRWTU) CRWT-

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■2	92	Heating zone 3 – "Day" oper- ation mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	S	tatus	
Function:		Activates the "Day" operation active. Corresponds to "Comfo Cycle time: max. 35 seconds	ort" of data type H	/AC mode.		
Description:		This communication object is the corresponding use case has		ting circuit 3 i	is availab	ole and
		Parameters > System dimensi available for room heating <ye and Parameters &gt; Use cases &gt; Sn</ye 	9S>		-	cuit 3 is
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b>	93	Heating zone 3 – "Night" op- eration mode	Write	1 bit	1.011	CRWT-
Rubric:			Data type:	S	tatus	
Function:		Activates the "Night" operation is active. Corresponds to "Eco The last value written on comr "Economy" is used as standar Cycle time: max. 35 seconds	nomy" or "Standby nunication object	/" of data type	e HVAC I	mode.
Description:		This communication object is the corresponding use case has		ting circuit 3 i	is availab	le and
		Parameters > System dimensi available for room heating <ye and Parameters &gt; Use cases &gt; Sn</ye 	es>		0	cuit 3 is
		r arameters > 030 cases > 311	ian contion > Any i	$u \circ v \circ u \circ v \circ $	2	

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎≵	94	Heating zone 3 – "Off" opera- tion mode	Write	1 bit	1.011	CRWT-
		Cycle time: max. 35 seconds				
Rubric:			Data type:	S	Status	
Function:		Activates the "Off" operation m active. Corresponds to "Econd	my" or "Stand			
		last value written on communio omy" is used as standard.	cation object 9	0 is decisive for	this state.	. "Econ-
Description:			<i>,</i> isible when a	heating circuit 3		
Description:		omy" is used as standard. This communication object is v	visible when a as been select ioning > Heatir	heating circuit 3 ed.	is availab	ble and

Object		Name	Direction	Data width	DP type	Flags (CRWTU)
∎≠	95	Heating zone 3 – day temper- ature heating	Write	2 bytes	9001	CRWT-
Rubric:			Data type:	Tempe	rature (°C	C)
Function:		Sets and reads the current set zone 3. See note on page 42 for MiPro Value range: 5-30 °C		day tempera	ature in he	eating
Description:		This communication object is with the corresponding use case has		ting circuit 3	is availab	le and
		Parameters > System dimensi available for room heating <ye and</ye 	0 0	ircuit 3 > A h	eating cire	cuit 3 is
		Parameters > Use cases > Sn hot water heating and heating			able to co	onfigure
		If a value outside the value rar code 7 is sent to communication	•	s communica	ation obje	ect, 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:	Tempe	erature (°C	C)
Function:		Sets and reads the current set zone 3. See note on page 42 for MiPro Value range: 5-30 °C		r the night tempe	erature in	heating
Description:		Parameters > System dimensi available for room heating <ye and Parameters &gt; Use cases &gt; Sn hot water heating and heating</ye 	es> nart control > 1 () with time	l would like to be control <√>	able to c	onfigure
		If a value outside the value rar code 7 is sent to communication		to this communic	ation obje	ect, error
Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>↓</b>	97	Heating zone 3 – day temper- ature cooling	Write	2 bytes	9.001	CRWT-
Rubric:		-	Data type:	Tempe	erature (°C	C)
Function:		Sets and reads the current set heating zone 3. Cycle time: max. 35 seconds Value range: 15-30 °C	point value fo	r the day temper	ature coo	ling in
Description:		This communication object is v ing circuit 3 is available, the co ler and the corresponding use	oling function	is activated in th		
		Parameters > System dimensi pump is available <yes> and</yes>	ioning > Heat	generator > A Sa	aunier Du	val heat
		Parameters > System dimensi available for room heating <ye and</ye 	-	ng circuit 3 > A h	neating cir	cuit 3 is
		Parameters > System dimensi for circuit 3 is activated on the and	•	•	e cooling i	function
		Parameters > Use cases > Sn hot water heating and heating	() with time	control <√>		C
		If a value outside the value rar	nae is written t	to this communic	ation ohie	ect error

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)
<b>■</b> ‡	100	Heating circuit 3 – flow tem- perature	Read	2 bytes	9.001	CR-T-
Rubric:		-	Data type:	Temp	erature (°C	C)
Function:		Displays the current flow temp Cycle time: max. 3 minutes Value range: 0-99 °C	perature in hea	ting circuit 3.		
Description:		This communication object is the corresponding use case h			3 is availab	le and
		Parameters > System dimens available for room heating <ye and</ye 	es>		Ū	
		Parameters > Use cases > In		ould like to see	the systen	n status
		of my Saunier Duval system (	) <v></v>			
Object		of my Saunier Duval system ( Name	Direction	Data width	DP type	Flags (CRWTU)
	101	· · ·		Data width 2 bytes	DP type 9.001	(CRWTU)
∎₽	101	Name Heating circuit 3 –	Direction	2 bytes		(CRWTU) CR-T-
Object ■ᢏ Rubric: Function:	101	Name Heating circuit 3 –	Direction Read Data type:	2 bytes Temp	9.001 erature (°C	(CRWTU) CR-T-
Rubric:	101	Name Heating circuit 3 – setpoint flow temperature Displays the current setpoint f Cycle time: max. 3 minutes	Direction Read Data type: flow temperatur	2 bytes Temp re in heating zor heating circuit 3	9.001 erature (°C ne 3.	(CRWTU) CR-T-
∎ <b>↓</b> Rubric:	101	Name Heating circuit 3 – setpoint flow temperature Displays the current setpoint f Cycle time: max. 3 minutes Value range: 0-99 °C This communication object is	Direction Read Data type: flow temperatur visible when a las been select sioning > Heatir	2 bytes Tempore in heating zor heating circuit 3 ed.	9.001 erature (°C ne 3. 3 is availab	(CRWTU) CR-T- CR-T-



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
■	102	Heating circuit 3 – pump	Read	1 bit	1.011	CR-T-
Rubric:			Data type:	Ş	Status	
Function:		Displays the operating st Cycle time: max. 3 minut	• •	neating circuit 3.		
Description:		This communication objet the corresponding use caresponding use caresponding use caresponding use caresponding the corresponding the corre		•	is availab	le and
		Parameters > System dia available for room heatin and	-	ng circuit 3 > A ł	neating cire	cuit 3 is
		Parameters > Use cases of my Saunier Duval sys		ould like to see	the systen	n status

,					51	(CRWTU)
∎≠∣	103	Heating circuit 3 – heating curve	Read	2 bytes	9.031	CR-T-
Rubric:			Data type:	2-byte floatin	ng decima	l value
Function: Description:		Displays the value of the setp Cycle time: max. 3 minutes Value range: 0.1-4 This communication object is the corresponding use case h	visible when a he	eating circuit 3	is availab	le and
		Parameters > System dimens available for room heating <y and Parameters &gt; Use cases &gt; In of my Saunier Duval system (</y 	es> formation > I wou		0	



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:	Temp	Temperature (°C)			
Function:		Displays the minimum flow Cycle time: max. 3 minute Value range: 7-24 °C		ooling mode.			
Description:		The requirement for this is a heating circuit which has the cooling function activated and the corresponding use case has been selected.					
		Parameters > System dimensioning > Heating circuit 3 > A heating circuit 3 is available for room heating <yes> and</yes>					
		Parameters > System dim for circuit 3 is activated or and	•	•	e cooling f	unction	
		<i>Parameters &gt; System dim pump is available <yes></yes></i> and	ensioning > Heat	generator > A Sa	aunier Duv	al heat	
		Parameters > Use cases : of my Saunier Duval syste		ould like to see	the systen	n status	



Object		Name	Direction	Data width	DP type	Flags (CRWTU)
<b>■</b> ‡	201	Heat generator – flow temper- ature	Read	2 bytes	9.001	CR-T-
Rubric:			Data type:	Tempe	erature (°C	C)
Function:		Displays the heat generator's o Cycle time: max. 3 minutes Value range: 0-120 °C	current flow te	mperature.		
Description:		The minimum requirement for t boiler and/or a Saunier Duval h use case.				0
		Parameters > System dimension boiler is available <yes> and/or Parameters &gt; System dimension pump is available <yes></yes></yes>	•	-		C
		You can configure up to eight h	neat generato	ors.		
		Each analogue communication Example:	i object has a	n offset of 5.		
		Heat generator 1 has the comr	nunication ob	ject number 201		
		Heat generator 2 has the comr	nunication ob	biect number 206		



Object		Name	Direction	Data width	DP type	Flags (CRWTU)	
<b>■‡</b>	202	Heat generator – error	Read	1 bit	1.002	CR-T-	
Rubric:			Data type:	В	oolean		
Function:		Shows whether the heat ger Cycle time: max. 5.5 minute True = Error exists		ror.			
Description:		The minimum requirement for this is the installation of a Saunier Duval gas boiler and/or a Saunier Duval heat pump and selection of the corresponding use case.					
		Parameters > System dimensioning > Heat generator > A Saunier Duva boiler is available <yes> and/or</yes>					
		Parameters > System dimer pump is available <yes></yes>	nsioning > Heat g	enerator > A S	aunier Duv	al heat	
		You can configure up to eigh	nt heat generators	S.			
		Each analogue communicat Example:	ion object has an	offset of 5.			
		Heat generator 1 has the co	mmunication obje	ect number 202	2		
		Heat generator 2 has the co	mmunication obje	ect number 207	•		



# 4 Commissioning

# 4.1 Operation

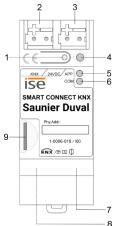


Figure 9: ise smart connect KNX Saunier Duval.

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:100 Mbit/sOn:Connection to IP networkOff:10 Mbit/sOff:No connectionOff:10 Mbit/sFlashes: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	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.	~
O● Green Flash quickly	Off	Error – Please contact support. The firmware cannot be started.	×
Iternating	O Yellow vly in an	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.
Three slow flashes fol- lowed by a 2 sec pause	<u>KNX Gateway error:</u> 3 = Error in communication with the ise eBUS Adapter. Communication be- tween the ise smart connect KNX Saunier Duval and the ise eBUS Adapter is not possible via USB. 4 = eBUS cable not connected. eBUS connection not recognised.
•O•O •O•O Five slow flashes followed by a 2 sec pause	KNX Gateway error: 1 = system controller not found. eBUS communication is possible, but no system controller was found.

LED "COM" (yellow)	Meaning
Yellow	Normal operation: KNX connection is established; no KNX telegram traffic.
Yellow with brief dark phases	Normal operation: 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.

Overview	Bus	Catalogs	Settings	
Connections				Connection Options
Interfaces				✓ Use direct IP connection if available
Options				<ul> <li>Use project bus connections if defined</li> <li>Disconnect connection after usage</li> </ul>
+ Monitor				
+ Diagnostics				

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 (normally 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						
>	(192.168.137.74)						

- 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 Saunier Duval 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 Saunier Duval 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 Saunier Duval

KNX medium Commissioning mode KNX supply KNX connection	TP S-Mode (ETS) DC 21 to 30 V SELV Bus connection terminal
External supply Voltage Connection Power consumption	DC 2430 V $\pm$ 10% Bus connection terminal, preferably yellow (+)/white (–) 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 IP connection USB connection	Ethernet 10/100 BaseT (10/100 Mbit/s) 1 x RJ45 1 x USB type A Use the supplied USB cable as standard. <b>Please note that the</b> <b>use of USB cables with a length of more than 3 m is gener-</b> <b>ally not permitted.</b>
Supported protocols microSD card Ambient temperature Storage temperature Installation width Installation height Installation depth	ARP, ICMP, IGMP, UDP/IP, DHCP, AutoIP KNXnet/IP as per KNX system specifications: Core, Device Management Without function 0 °C to +45 °C -25 °C to +70 °C 36 mm (2 HP) 90 mm 74 mm
Protection type Protection class	IP20 (compliant with EN60529) 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 Saunier Duval'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 Saunier Duval 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 Saunier Duval requires the current version of the ETS5.
- Why is my ise smart connect KNX Saunier Duval restarting? After connecting the ise smart connect KNX Saunier Duval 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 MiPro Sense controller? 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 Saunier Duval and require support, please send an e-mail 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 Saunier Duval.

# 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.

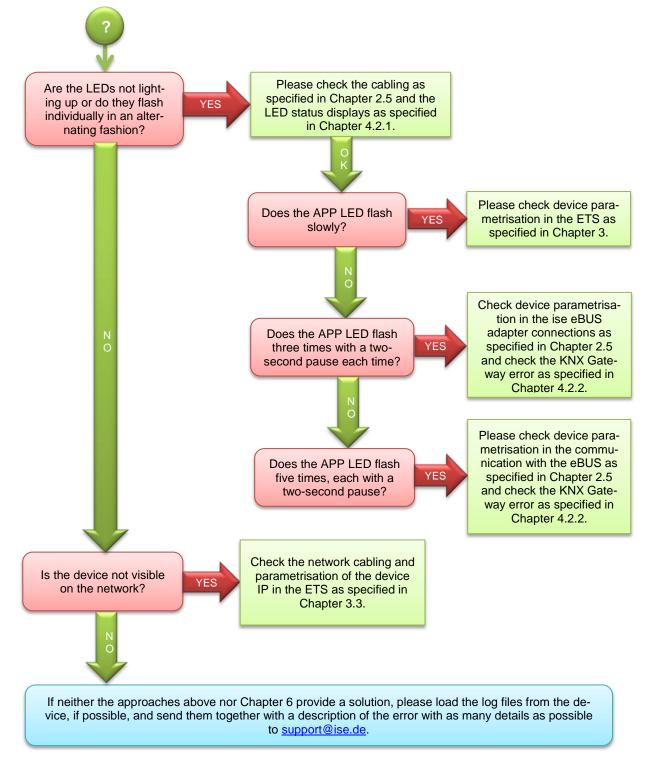
# 7.2 Status page of the ise smart connect KNX Saunier Duval

You can call up the device status on the website of the ise smart connect KNX Saunier Duval (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 Saunier Duval. Should an error occur, please send us a screenshot of the status page.



# 7.3 The ise smart connect KNX Saunier Duval does not work

The following error tree is intended to solve the most common problems. Should this be unsuccessful, please contact us at <a href="mailto:support@ise.de">support@ise.de</a>.





# 8 ise smart connect KNX Saunier Duval software licence agreement

Hereinafter are the contract terms for your use of the software as the "Licensee". On accepting this agreement and installing the ise smart connect KNX Saunier Duval software or putting the ise smart connect KNX Saunier Duval into use, you conclude an agreement with ise Individuelle Software und Elektronik GmbH and agree to abide by the terms in this agreement.

#### 8.1 Definitions

**Licensor**: ise Individuelle Software und Elektronik GmbH in Oldenburg, Osterstraße 15, Germany **Licensee**: The legal recipient of the ise smart connect KNX Saunier Duval software.

**Firmware**: Software which is embedded on the ise smart connect KNX Saunier Duval hardware and enables operation of the ise smart connect KNX Saunier Duval.

**ise smart connect KNX Saunier Duval software**: The ise smart connect KNX Saunier Duval software designates all of the software provided for the ise smart connect KNX Saunier Duval product, including the operating data. This includes, in particular, the firmware and the product database.

## 8.2 Object of the agreement

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

### 8.3 Rights of use of the ise smart connect KNX Saunier Duval software

The licensor grants the licensee the non-exclusive, non-transferable right to use the ise smart connect KNX Saunier Duval 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).

The licensee is obliged to ensure that each person who uses the program only does so as part of this license agreement and observes this license agreement.

# 8.4 Restriction of rights of use

#### 8.4.1 Copying, modification and transmission

The Licensee is not authorised to use, copy, modify or transfer the ise smart connect KNX Saunier Duval software in whole or in part in any way other than as described herein. Excluded from this is one (1) copy produced by the Licensee exclusively for archiving and backup purposes.

#### 8.4.2 Reverse engineering and conversion technologies

The licensee is not authorised to apply reverse-engineering techniques to the ise smart connect KNX Saunier Duval software or to convert the ise smart connect KNX Saunier Duval software into another format. Such techniques include, in particular, disassembly (conversion of the binary-coded computer instructions of an executable program into an assembler language which can be read by humans) or decompilation (conversion of binary-coded computer instructions or assembler instructions into source code in the form of high-level language instructions).



### 8.4.3 Firmware and hardware

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

### 8.4.4 Transfer to a third party

The ise smart connect KNX Saunier Duval software may not be passed on to third parties, nor may it be made accessible to third parties.

#### 8.4.5 Renting out, leasing out and sub-licensing

The Licensee is not authorised to rent or lease the ise smart connect KNX Saunier Duval software or grant sub-licenses to the program.

#### 8.4.6 Software creation

The Licensee requires written approval from the Licensor to create and distribute software which is derived from the ise smart connect KNX Saunier Duval software.

#### 8.4.7 The mechanisms of license management and copy protection

The mechanisms of the license management and copying protection of the ise smart connect KNX Saunier Duval software may not be analysed, published, circumvented or disabled.

### 8.5 Ownership, confidentiality

#### 8.5.1 Documentation

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#### 8.5.2 Transfer to a third party

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### 8.6 Changes, additional deliveries

The ise smart connect KNX Saunier Duval software and the documentation (which shall be provided in printed form or additionally as online help or online documentation) shall be subject to possible changes by the licensor.

# 8.7 Warranty

The ise smart connect KNX Saunier Duval software shall be delivered together with software from third parties as listed in chapter "9 – Open Source Software". No warranty is provided for software from third parties.

### 8.7.1 Software and documentation

The ise smart connect KNX Saunier Duval software and the documentation (which shall be provided in printed form or additionally as online help or online documentation) shall be provided to the licensee in the respective valid version. The warranty period for the ise smart connect KNX Saunier Duval software is 24 months. The licensor shall provide the following warranty during this time:

- 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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### 8.9 Applicable law

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### 8.10 Termination

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# 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

All rights not expressly mentioned in this agreement are reserved.