

KNX Gateway

Installation instructions



Der SonnenLichtManager

Valid from
1 July 2022
Keep for future use.

General information



Fig. 1 KNX Gateway

The KNX Gateway enables the use of WAREMA climatronic® as a central control unit in a KNX bus system. It transmits the move commands, weather data and status information of the WAREMA climatronic® to the KNX bus. The KNX Gateway can also read out certain status information from the KNX bus and make it available to the WAREMA climatronic® control panel.

Control parameters can readily be changed directly on the WAREMA climatronic® control panel without it being necessary to set parameters on the KNX side (e.g. by means of ETS).

A KNX Gateway can address 16 channels. By using multiple KNX Gateways, all channels of the WAREMA climatronic® can be implemented on the KNX bus.

The KNX Gateway is supplied with 24 V DC via the WAREMA climabus.

The KNX Gateway can only be used in conjunction with the WAREMA climatronic® 2.0 control panel. Older versions of the WAREMA climatronic® are not suitable and cannot be upgraded with a software update.

Intended use

The device was developed to control sun shading systems. The approval of the manufacturer must be obtained for uses outside of the purposes listed in these instructions.

The KNX Gateway is intended for installation in enclosed electrical operating facilities.

Safety instructions



WARNING

The electrical installation (assembly)/dismantling must be performed by a certified electrician in accordance with the electrical installation regulations published by the Association of German Electrical Engineers (VDE 0100) or the standards and regulations of the country in which the device is being installed. The electrician must observe the installation notes included with the electrical devices.



WARNING

If hazard-free operation cannot be assumed, the device may not be commissioned or must be decommissioned. This assumption is justified:

- ▶ If the housing or the supply lines show signs of damage,
- ▶ If the device is no longer working.



WARNING

It is important to comply with the following points in the interest of personal safety.

- Children may not play with the operating elements of the control unit or the remote control! Store the remote controls out of the range of children.
- Make sure that no persons or objects are in the range of movement of the driven parts (blinds, external venetian blinds, etc.)!
- Disconnect the device from the operating voltage if cleaning or other maintenance work must be performed.

Function

These functions are integrated in the software. A detailed description can be found in the KNX Gateway manual. The manual and product database of the KNX Gateway can be downloaded from www.warema.com.

Installation

The device is intended for installation in a distribution cabinet. The unit is mounted by clipping it onto a DIN rail (TH 35-15).

Electrical connection

An on-site overload current protection device (fuse) and a disconnecting and isolating switch to switch off the entire system must be provided.

The device meets the EMC directives for use in residential and commercial areas.

The connection to the WAREMA climabus and to the KNX bus system is completed using plug-in terminals according to the wiring diagram on the back (Fig. 5). The terminal cover (see Fig. 2) can be removed to connect the bus system.

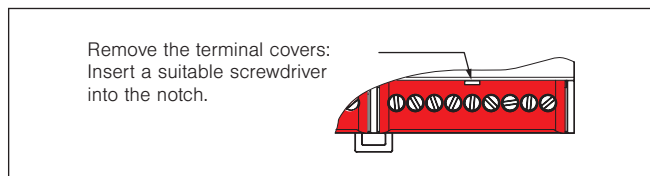


Fig. 2 Remove the terminal cover

Setting the device ID

Up to four KNX Gateways can be used per WAREMA climatronic®. For these to be correctly addressed by the climatronic, the encoding switches **S2** (see also Fig. 3) must be set as shown in the following table.

Encoding switches for selecting the device ID for the climabus

Encoding switch				Gateway	WAREMA climatronic®	
1	2	3	4	Number	Channels	Scenes
ON	OFF	OFF	OFF	1	1 – 16	1 – 8
OFF	ON	OFF	OFF	2	17 – 32	9 – 16
OFF	OFF	ON	OFF	3	33 – 48	–
OFF	OFF	OFF	ON	4	49 – 64	–

Only one encoding switch may be set to ON at each KNX Gateway.

Commissioning

The device is operational and can be programmed after the installation has been completed, the device ID has been set and the operating voltage is applied.

Programming

i Take suitable precautions to prevent damage due to electrostatic discharge!

- Press the learn button **S1** (Fig. 3) to put the device into programming mode. The red LED **D1** lights up when programming mode is active. The device is programmed on a PC with the corresponding software. This software ends the programming mode automatically. The red LED goes out.
- If the programming mode is to be ended earlier, press the programming button again. The red LED goes out.

Maintenance

There are no parts within the device that require maintenance. In the event of a malfunction, the built-in miniature fuses should only be changed by a certified electrician.

Cleaning

Clean the housing with a soft, dry cloth. Do not use detergents, cleaning agents, solvents, abrasive substances or steam cleaners!

Liability

Failure to comply with the product information in these instructions and any use of the device other than its intended use may result in the manufacturer refusing to honour warranty claims for product damage. In this case, liability for consequential damage to persons or property will also be excluded. Observe the information in the operating instructions for your sun shading system. The automatic or manual operation of the sun shading system while iced over as well as using the sun shading system during severe weather may cause damage and must be prevented by the user through suitable precautions.

Obligations for the disposal of electrical devices



A marking with this symbol indicates the following obligations under the scope of legal regulations:

- The owner of this electrical device must dispose of it separately from unsorted municipal waste for further recycling.
- Used batteries and accumulators that are not enclosed in the old device, as well as lamps/bulbs that can be removed from the old device without breaking, must be disposed of separately.
- Distributors of electrical devices and disposal companies are obliged to take back the equipment free of charge.
- The owner must take it upon themselves to delete any personal data contained in the electrical device prior to disposal.

KNX is a registered trademark of the KNX Association.

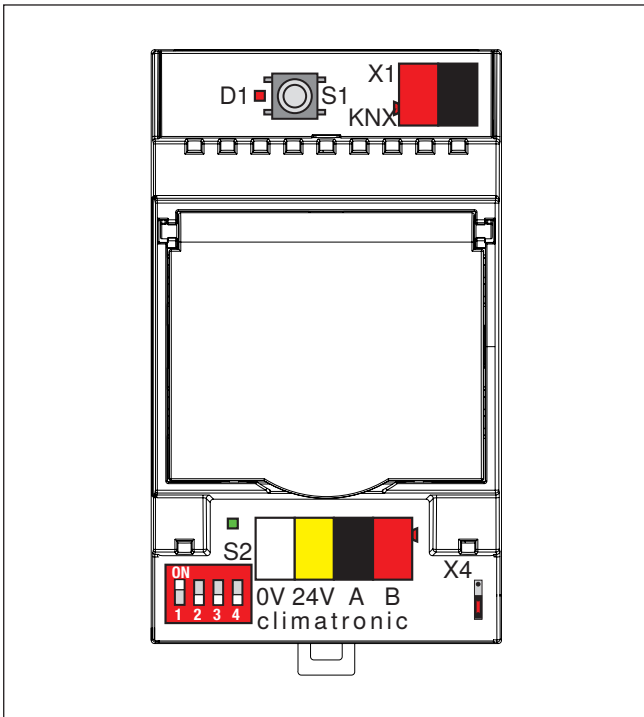


Fig. 3 KNX Gateway

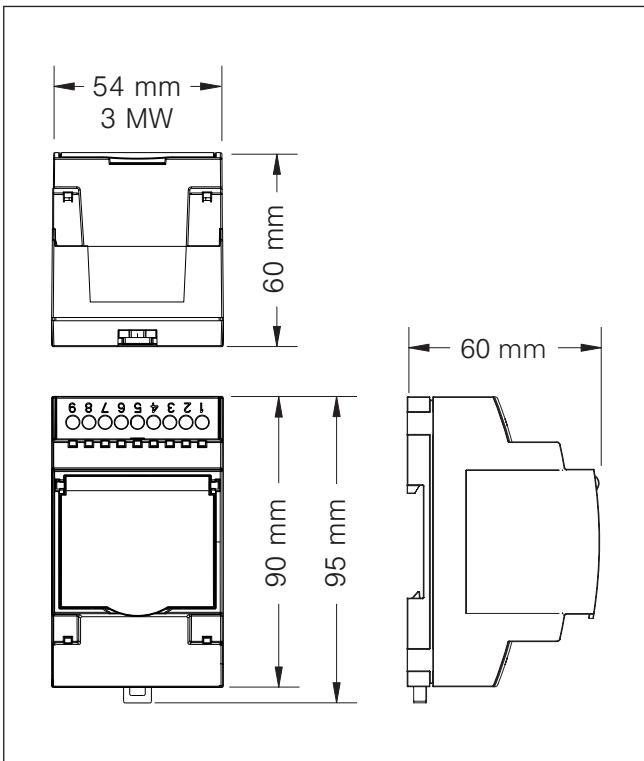



Fig. 4 Dimensions

Technical data

KNX Gateway	Min.	Typ.	Max.	Unit
Supply 24 V DC (terminals X2)				
Operating voltage	20	24	28	V DC
Current consumption			10	mA
KNX (terminals X1)				
				TP 1
KNX current consumption			19	mA
Voltage			29	V DC
Housing				
Dimensions	See Fig. 4			
Degree of protection	IP30			
Safety class	III			
Connection				
climabus	Spring terminals 0.6...0.8 mm \varnothing			
KNX bus system	Spring terminals 0.6...0.8 mm \varnothing			
Ambient conditions				
Operating temperature	0	20	40	$^{\circ}\text{C}$
Storage temperature	0	20	50	$^{\circ}\text{C}$
Rel. humidity (non-condensing)	10	40	85	%RH
Degree of soiling	2			
Miscellaneous				
Location of use	Clean ambient conditions			
Conformity	 Viewable under www.warema.de/ce			
The device meets the EMC directives for use in residential and commercial areas.				
Article numbers				
KNX Gateway	1002 922			
WAREMA Renkhoff SE Hans-Wilhelm-Renkhoff Strasse 2 97828 Markttheidenfeld Germany				

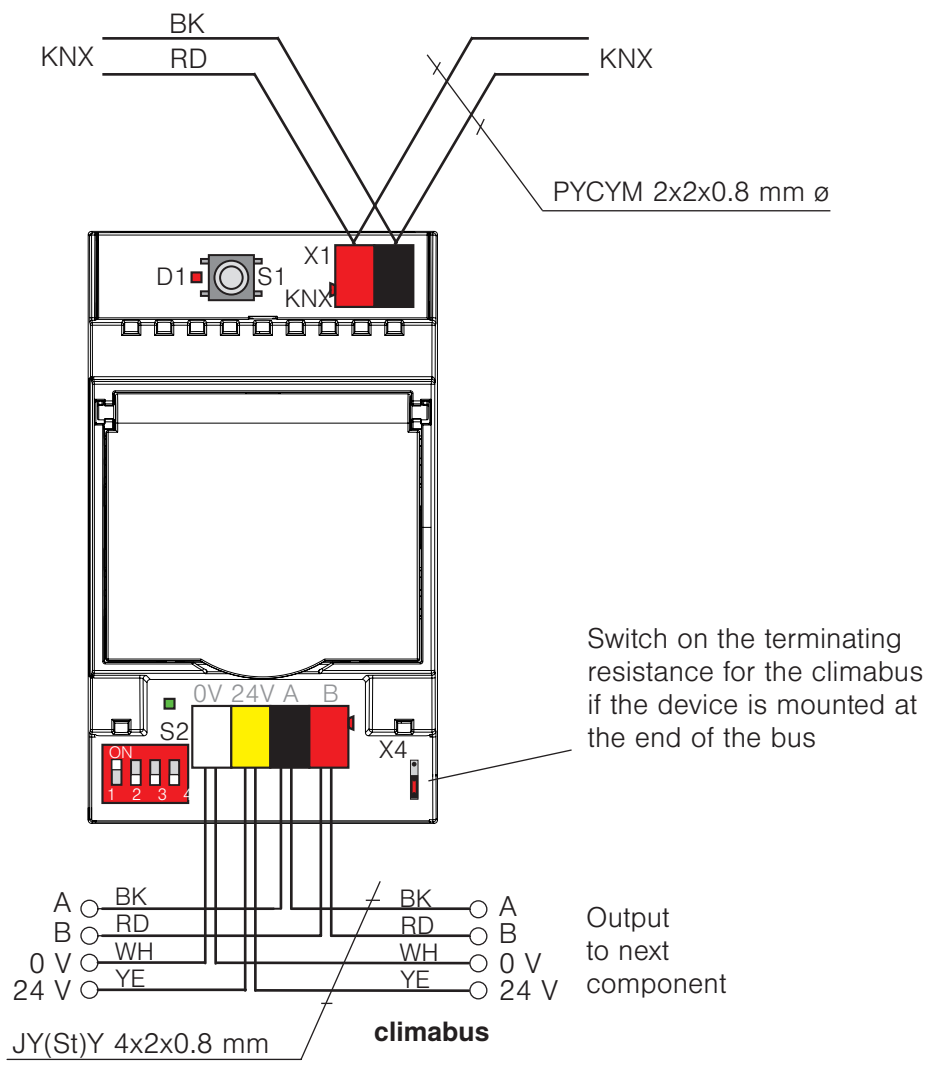


Fig. 5 Connection