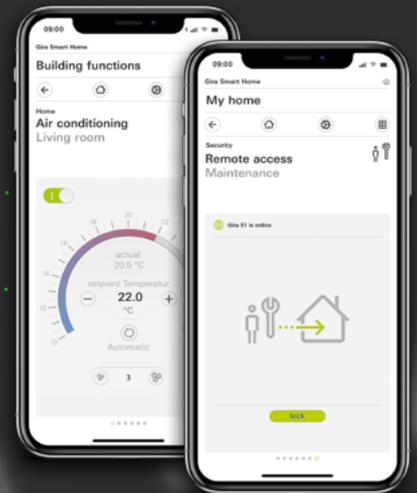


# GIRA

Smart Home –  
but with security.



Gira / Data Security

We are Gira.  
We are the ones with the switches.  
But we're so much more.

Future-oriented.  
Certified.  
Responsible.

We're the guardians, innovators,  
smart home pioneers, developers,  
systems thinkers, KNX partners,  
shapers of the future, patent masters,  
award winners and designers.

But above all, we're the ones  
who listen.  
To you.

Subtle, but smart.  
With distinct focus on quality,  
materials and functions.  
And the driving force of innovation.

In our hearts, we are engineers  
on a mission to inspire.  
With new technologies,  
smart applications, and  
impressive attention to detail.

We will always work our hardest  
to find the best solution for you.  
With service, design and performance  
made in Germany.

Because that is what we stand for.  
And have been standing for since 1905.

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# The trade sector needs data protection and data security – and Gira's experience.

Data protection and technical data security are important issues for builders and homeowners. This applies to all Smart Home devices used in the home – from servers and operating devices to actuators. It is essential that digital home technology is installed by an electrical engineering firm. By carrying out the installation in a careful and professional manner, you create the conditions for well-protected building technology.

We have many years of experience in this sensitive area and can support you as specialist partners with any query or task. For example, we offer training programmes, products and solutions for a secure Smart Home.

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GIRA

15:35

75%

# Data protection and data security in the Smart Home



A Smart Home offers many advantages. Intelligent building technology provides occupants and users with unique comfort, safety, and improved energy efficiency for living and working. However, precisely due to comprehensive networking and technical adaptation to user behaviour, personal data protection and technical data security are extremely important topics that must be handled appropriately. Networks in Smart Homes precisely always involve sensitive personal facts that you as an insider data owner – for the number of reasons, when those residents are at home and when they are out, user behaviour, and frequently also camera images in which people are visible.

## Our recommendations for greater data security

Protecting personal data, safeguarding technical systems – we have summarised the most important things you need to keep in mind regarding these two topics. For the contractual protection of personal data, you can download a template to be used as an appendix to the contract. From a technical standpoint, there is also a lot that can be done to protect data and networks.

# Our recommendations for greater data security.

Protecting personal data, safeguarding technical systems – we have summarised the most important things you need to keep in mind regarding these two topics. With this knowledge, you will be well prepared for your next Smart Home project. And, if in doubt, we can of course also offer you personal support.



Take account of data security in the cost calculation.

Hardware and programming costs for data security within the network should be taken into account when calculating costs.

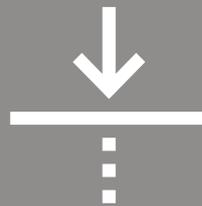
- Observe the security-related aspects of each network.
- Plan all work in advance – to ensure sufficient freedom during implementation.
- Calculate two versions: one with basic security requirements and one with increased security.



### Group network into VLAN segments.

To increase security for your customers and ensure that children, for example, cannot see their parents' PC and that only authorised persons can access the home controls:

- Divide the data network into protected zones.
- Logical groups with corresponding VLAN segments for home technology, maintenance purposes, internet access, IP cameras.



### Prevent unauthorised access.

To ensure increased protection of the customer's system:

- Set up customer access for external access – with the Gira S1.
- Set up a virtual private network (VPN access) on the internet router and on the necessary smartphones, tablets or external PCs.

# Data Security / Recommendations



IP-Adress 192.168.0.11  
User admin  
Password AG&Z=ML



### Use secure passwords.

To increase password security on your customers' devices:

- Always change the default device passwords in consultation with the customer.
- Always update passwords – and explain to customers why this is important.



### Carry out regular updates.

To keep the security of the technology up to date:

- Perform updates on all devices.
- Help customers with the updates.
- Use the model contract, if necessary, for support and maintenance of IT systems.



**Observe security standards for wireless networks.**

To effectively secure wireless (WLAN) networks:

- Use WPA2 encryption method according to IEEE802.11i in conjunction with the AES algorithm.
- Inform your customers about the use of WPA2 and its function.
- Always keep your knowledge of encryption methods up to date.
- Attend Gira network security training.



**Encrypted communication through KNX Secure.**

To install important security standards with the product:

- Choose KNX Secure-compatible devices.
- Encryption and authentication of the KNX protocol reliably protect against manipulation and unauthorised access.
- Global manufacturer-independent standard.
- Learn more on page 14.



### Inform customers about data protection.

To show your customers you are a competent specialist company:

- Point out security-related aspects.
- Highlight data protection solutions.



### Use contracts to protect privacy.

To create trust and give your customers a feeling of security:

- Contractually define the handling of sensitive data: number of inhabitants, times when present and absent, user behaviour, camera images.

# Gira S1 – now with VPN.

With the Gira S1, users can connect easily and reliably to their KNX Smart Home or Gira Alarm Connect security system when they are on the move. Thanks to the new VPN connection, the Gira S1 now offers an additional way of securely accessing the customer's system remotely. This allows you to control and maintain network devices easily and securely while on the move. This means it is possible to optimise and control not only the actual KNX system via remote maintenance, but also telephone systems, camera systems, networks and other systems.



## Highlights, facts and benefits Gira S1 with VPN:

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Easy, fast and stress-free setup of VPN access to a home network.

An additional way of securely connecting to the customer's system.

Also enables remote maintenance of telephone systems, camera systems, networks and more.

Users can access their home's data independently while on the move.

Push notifications sent to the Gira Smart Home App.

Full KNX Secure support, including secure tunnelling connection between Gira HomeServer and Gira S1.

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[www.VDEInfo.com](http://www.VDEInfo.com)  
ID. 40052422

Security tested and certified by the VDE

# Smart, but secure: the KNX Secure Standard in the Smart Home.

To increase the level of data security in the Smart Home, we have integrated the KNX Secure Standard into many of our products. KNX Secure is the world's first manufacturer-independent and application-independent security standard for smart buildings, offering data integrity, authentication, encryption and data currency.





### How KNX Secure works.

On the one hand, KNX Secure extends the KNX IP protocol to reliably secure transmitted data (KNX IP Secure). On the other hand, KNX Secure protects the traditional KNX protocol by means of encryption and authentication. The safety mechanisms are already in place during the protected start-up of the KNX system via the ETS. Subsequently, during operation, data communication is protected against unauthorised access, tampering and eavesdropping.

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#### ⊕ Highlights, facts and benefits KNX Secure:

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High level of security in the KNX installation, for each individual system.

Protection from unauthorised access to the installed KNX Secure devices by third parties.

Protection from eavesdropping of data communication between KNX Secure devices.

Cross-manufacturer standard for interoperability with other KNX products.

Secure and non-secure communication can be combined on a single device.

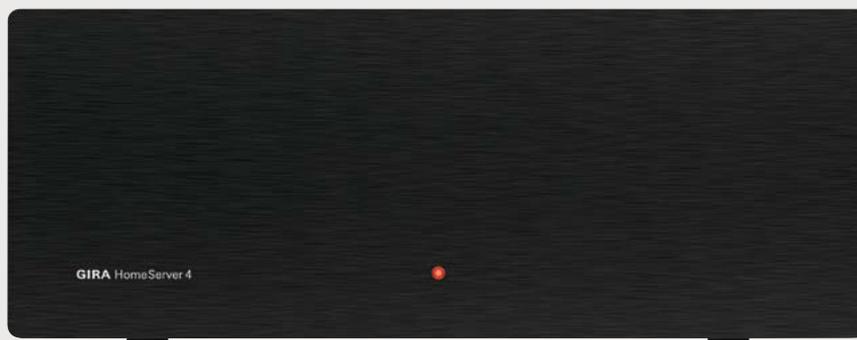
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# Our products for your data security.

With our extensive range of KNX Secure-compatible products, you can offer your customers reliable protection against tampering and unauthorised access.

From actuators and servers to numerous operating elements: we offer you everything from a single source. And new solutions are constantly being added.

## Server



Gira HomeServer

## Remote access



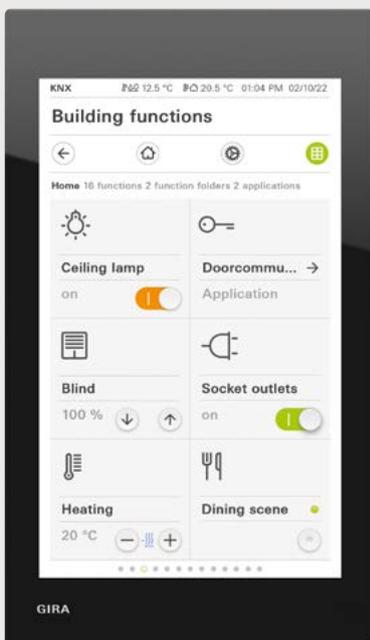
Gira S1

## Data interface



KNX USB data interface insert

## Operating devices



Gira G1



KNX RF operating top unit



KNX button

## Actuators



KNX dimming actuators



KNX switching and blind actuators



KNX flush-mounted actuators



KNX IP router



# Gira Academy. Because data security needs the right know-how.

The Gira Academy is offering a special training programme on data security: Take advantage of the online seminars and web-based training courses to bring your knowledge of data protection, KNX Secure and Smart Home security up to date.

For example, you will learn how to create and operate KNX systems securely and what options the KNX Secure Standard has to offer. [academy.gira.com](https://academy.gira.com)



#### Face-to-face seminars.

- Network technology: Basics
- Network technology: Network security and VLANs
- Network technology: WLAN planning

#### Online seminars.

- Measures for a secure KNX system
- Gira S1: Remote access
- Gira X1: the cornerstone of the intelligent home
- KNX Secure: Setup and usage

#### How safe is the Gira system you have installed?

Scan the QR code and take the test online at heise.



Brush up on your knowledge in the partner portal.

For more information or checklists, visit the Gira website. [partner.gira.com](https://partner.gira.com)



# Knowledge, service and more. We are at your side.

## Help with your day-to-day work.

As a partner of the electrical trade, we are always there for you with comprehensive support – from planning and ordering to professional help with commissioning and servicing.

## Gira Academy.

Knowledge provides security – and pays off.

You will receive specialist support for all new technical features and for the whole range of Gira products. The Gira Academy offers various types of seminars and training courses – both online and in person. Choose the training offer that's right for you.

[academy.gira.com](http://academy.gira.com)

**Online catalogue.**

Discover the complete Gira product range, from switches to intelligent system solutions. The Gira online catalogue has a range of useful features. You can create and manage parts lists, compare products, and use the intelligent search.  
[catalogue.gira.com](http://catalogue.gira.com)

**Gira Design Configurator.**

The Gira Design Configurator uses augmented reality to show your customers what their chosen design line and other products will look like on their walls. The different design lines can be combined with inserts, and various colours can be selected.

[designconfigurator.gira.com](http://designconfigurator.gira.com)

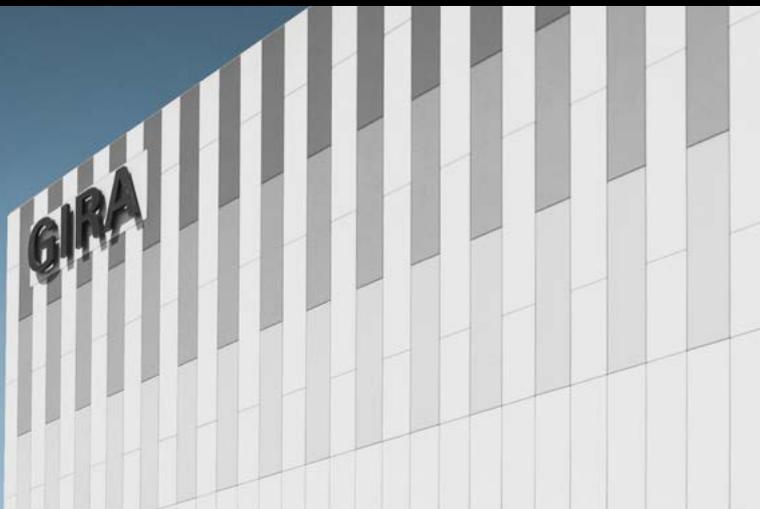
**Gira sample case.**

If you are interested in receiving a Gira sample case for presenting Gira products in their original form, please contact your Gira sales representative.  
[info@gira.com](mailto:info@gira.com)

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# Being innovative means thinking beyond your own four walls.

Since 1905, we've been the ones with the switches, but we're so much more ... Because innovation is our great passion. Our pioneering spirit drives us to constantly improve and enhance the comfort of people's homes with innovative solutions.



"Made by Diversity".

Gira has been manufacturing products at its location in Radevormwald for more than 100 years. The company is fully committed to the "Made in Germany" quality standard. This is what 1,250 employees from 27 nations work for – each and every one of them with different talents, individual expertise, wide-ranging experiences, and different life stories. This diversity – supported by common values – is the basis for our creativity, innovative strength, and viability for the future.

Innovative technology, award-winning design.

We have always strived to combine maximum functionality and reliability with a unique design to create special user experiences. The extraordinary design quality and functionality of our products have been recognised by many internationally acclaimed awards.



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hgschmitz.de

Subject to technical modifications.

Any colour variations between the figures in this product information and the product are due to printing processes and cannot be avoided.

Shaping the future also means doing everything possible to protect the environment in which we want to live in the future. When creating this brochure, Gira supported the idea of sustainability by handling resources responsibly and using environmentally sound materials. The paper used is FSC® certified and made of at least 60% recycled paper.

[www.sustainability.gira.com](http://www.sustainability.gira.com)



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