



Summary Pricelist
KNX Secure Products
07-2020

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Company Headquarter

Lingg & Janke OHG
KNX/EIB Systemhaus
Zeppelinstrasse 30
D-78315 Radolfzell
Germany

Managing Directors

Herbert Lingg
Peter Janke

Contact

Tel. +49 (0) 77 32 / 9 45 57 50
Fax +49 (0) 77 32 / 9 45 57 99
info@lingg-janke.de
www.lingg-janke.de

Registration

Amtsgericht Freiburg i. Brsg.
HRA 550290
Tax-No.: 18205/12007
VAT Id.No.: DE 188304363

Support

Tel. +49 (0) 77 32 / 9 45 57 71
support@lingg-janke.de

All deliveries according to our general terms and conditions.

This pricelist is effective from 1st July 2020. It is a supplement to the main pricelist 01-2020.

Pictures may deviate.

1 Introduction

1.1 Preface

Dear customer,

The KNX world is starting into a new era – the age of digital encryption.

We at Lingg & Janke wish to accompany you on the way into the new era and support your KNX projects with our products complying with the latest KNX Secure Standard.

1.2 What is KNX Secure?

KNX Secure is the systematic further development of the KNX standard. Until now, all data transmitted on the KNX bus were open and readable for anyone having access to this KNX bus, thus permitting manipulation. This is no longer possible with KNX Secure.

Data security and privacy can now also be realized in state-of-the-art electrical installations.

In the KNX standard, KNX Secure is divided into KNX IP Security and KNX Data Security.

KNX IP Security is used when KNX telegrams are transmitted via KNX IP line or area couplers and KNX IP gateways.

For all other KNX bus subscribers, KNX Data Security is used, e.g. for "standard" KNX devices connected to a twisted pair line. Accordingly, KNX Data Security is used by almost all Lingg & Janke KNX products.

1.3 How does KNX Data Security work?

KNX telegrams mainly consist of two parts:

an address and controller part (source address, destination address, telegram type) and a data part (switching value, temperature value or device parameter, etc.).

KNX Data Security only encrypts the data part. This has the benefit that by using the source and destination address, the telegram can be routed via the line and area coupler from the sender to the receiver without the necessity of decrypting and encrypting it in each of the couplers.

This permits conventional programming interfaces (USB and IP) as well as standard line and area couplers to be used in paired-wire KNX installations. However, the couplers must be able to process long-frame telegrams. The data part of an encrypted KNX telegram is slightly longer than the data part of a conventional KNX telegram.

To avoid an encrypted KNX telegram (e.g. "Blinds up") being applied multiple times by repetition, the data part is assigned a new number each time it is sent. This sequential number is transmitted unencrypted, but is included in the data encryption. If a sequential number is already known by a recipient, any telegram with the same number will no longer be accepted and will therefore not be executed. Data content is secured, and there are also protective safeguarding mechanisms against data repetition.

1.4 What must be observed for a secure setup?

Since any data content in a KNX Secure telegram can be encrypted, the individual KNX Secure devices can also be set up in secure mode via the ETS®.

To be able to access a KNX device securely, i.e. using encrypted telegrams from the outset, the ETS® requires an initial device key, the so-called Factory Default Setup Key (FDSK).

Lingg & Janke supplies this FDSK for each KNX Secure device as a QR code. The FDSK is also saved in the corresponding device.

Before setup, the QR code of each device is uploaded into the ETS®. The FDSK also includes the serial number of the device, allowing the ETS® to allocate the keys to their devices. When parameterizing the devices via the ETS®, the serial number of the corresponding device is requested each time the programming button is pressed. This allows the ETS® to allocate the matching FDSK and to apply encrypted communication with the device.

To enhance security even further, the ETS® now automatically creates a new device key. This key is transmitted to the device being parameterized using the FDSK. The new ETS® key is named "Tool Key" and becomes valid as soon as it has been transmitted. It is only known to the ETS® or the ETS® project for the specific KNX installation. Thereafter, the FDSK will no longer provide access to the device.

1.5 How are data encrypted?

In the further parameterization, the ETS® automatically assigns an additional new group key and uploads it into the device for each group address assigned to the KNX device. This means that if a KNX device is parameterized with thirty different group addresses, then thirty assigned group keys will be uploaded into the device as well. Each telegram containing a different group address will be encrypted with a different group key, accordingly. This represents an enormous increase in security. There is no such thing as a master key in KNX Secure. Each device has its own ETS® key, and each group address has its own group key.

1.6 How is project security realized?

So far, so good, but we take it further. The ETS® also assigns each KNX device being parameterized its own sequential number. Then, the ETS® informs all devices connected to the installation (within an ETS® project) which device with which physical address may communicate with which other device. The devices of an installation (within an ETS® project) therefore form a closed group. Accordingly, it is mandatory that an installation is set up with only one specific ETS® project. Newly added devices will not be able to immediately communicate with the other devices of a group. Adding a device requires all existing devices with which it is supposed to communicate to be re-parameterized. This ensures maximum security.

Without the ETS® project for a specific KNX installation, there is practically nothing that can be modified in this installation. Anyone owning the ETS® project has unrestricted control over the project. This ensures installation owners and project creators that unauthorized modifications leading to malfunctions are reliably prevented. The ETS® requires a project password for secure setup. If this password is lost, the ETS® project can no longer be used, and the KNX installation can no longer be modified.

However, the actual KNX products can be reused. After a reset to the factory settings (Factory Reset), the device can be programmed again. All keys, group addresses, etc. used by then will be deleted, removing the device from the installation.

1.7 Can KNX Secure devices communicate with KNX devices already installed?

Secure setup and secured, encrypted communication are not mandatory, though. Prior to parameterization, a decision can be made for each device whether it shall be set up in secure mode, i.e. encrypted, or in unsecured mode, i.e. unencrypted. In Lingg & Janke systems, all KNX Secure devices for which a conventional unsecured ETS® application exists, can be set up with the application used by then as well. The KNX Secure device then behave like conventional KNX devices. All Lingg & Janke devices are supplied in unsecured mode.

It is also possible to define encrypted or unencrypted transmission for each group address and for each group telegram created by it. This allows earlier KNX devices not yet supporting KNX Secure to communicate with new KNX Secure devices. Earlier and later devices can therefore be mixed without a problem.

However, if secure communication is the call of duty, secure setup must be used. Otherwise, all group keys could be read out in unsecured mode, and secure transmission would not be ensured.

So far for a brief introduction to KNX Secure.

In practice, all you will notice of these technical features is that you can turn them on or off. Everything else is handled automatically by the devices.

All the best with your KNX Secure devices from Lingg & Janke!

Sincerely, Peter Janke

ETS® is a registered trademark of the KNX Association in Brussels

1.8 Frequently Asked Questions

Must a KNX Secure device be set up in secure mode?

NO

All devices are delivered in unsecured mode. Secure setup can be enabled or disabled in the ETS®.

Must group telegrams for KNX Secure devices always be transmitted encrypted?

NO

In the ETS®, you can define encrypted or unencrypted conventional transmission for each group address and each group telegram created from it. To do so, secure mode is enabled or disabled in the settings. If you select "Automatic", the ETS® decides on its own whether secure mode is possible or not. Secure mode can be established if all participating devices support KNX Secure and are set up in secure mode.

Can earlier KNX devices communicate with later KNX Secure devices?

YES

Secure mode must then be disabled for the corresponding group addresses.

Can KNX Secure devices set up in secure mode be re-parameterized later on?

YES

This requires a reset to the factory settings (Factory Reset).

Proceed as follows: Disconnect the bus connector / Press and hold the programming key / Connect the bus connector / Programming LED lights up / Release the programming key / Wait until the programming LED extinguishes (approx. 5 sec.) / Device is now reset to its factory settings.

Does secure setup require extra effort?

YES

Only minimum effort is required, however.

All QR codes of the products used must be uploaded into the ETS®. This is done using the camera integrated into the notebook or a USB camera connected to it.

The set-up time for each device increases slightly. For Lingg & Janke devices, the additional time required is approx. 10 – 20 sec. In unsecured mode, approx. 30 sec. are needed for the download. This means a total time of approx. 40 – 50 sec. for the secure setup of each device is required.

Does a KNX Secure installation require additional maintenance effort?

NO

However, the availability of the corresponding ETS® project is a prerequisite.

If the ETS® project is open, all telegrams in the ETS® can be displayed and recorded unencrypted.

There is practically no difference to a conventional KNX installation.

Can the keys of an ETS® project be exported?

YES

You can create an XML file with all keys used in this project. This “keyring” file must be protected by a password.

Is there any means of visualizing KNX Secure?

YES

Lingg & Janke offers a matching KNX visualization tool that supports KNX Secure standard. The keys required are transmitted in the “keyring” file.

Should KNX Secure only be used if so required by the customer?

NO

An encrypted KNX project provides optimal project security for the installer or system integrator as well.

Does KNX IP Security provide sufficient security for an entire KNX installation?

NO

KNX IP Security provides security on the IP network only. All telegrams on the remaining parts of the KNX bus are unprotected.

However, the reverse does not apply: If KNX Data Security is used, all telegrams on the KNX bus are secure, including those transmitted via the IP network.

Can I modify a KNX Secure installation if the corresponding ETS® project is no longer available?

NO

Without the corresponding ETS® project containing all keys, you can neither re-parameterize devices nor add any devices. If this was an option, the installation would not be secure.

The only way to go is to reset all devices to their factory settings and to set them up again.


2 KNX Secure Products

2.1 KNX Secure Switching Actuators 16A C Load 200µF



KNX Secure switching actuator 2 fold, C load


- FDSK on frontplate for easy read access
- 2 channels for 2 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
A2F16H-SEC  4 260049 689994	KNX Secure switching actuator 2f, manual operation	3	79231 SEC	115,00	1



KNX Secure switching actuator 4 fold, C load


- FDSK on frontplate for easy read access
- 4 channels for 4 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
A4F16H-SEC  4 260049 689997	KNX Secure switching actuator 4f, manual operation	4	79232 SEC	136,00	1



KNX Secure switching actuator 6 fold, C load


- FDSK on frontplate for easy read access
- 6 channels for 6 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
A6F16H-SEC  4 260049 689990	KNX Secure switching actuator 6f, manual operation	6	79234 SEC	174,00	1



KNX Secure switching actuator 9 fold, C load

- FDSK on frontplate for easy read access
- 9 channels for 9 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200μF


product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
A9F16H-SEC  4 260049 689963	KNX Secure switching actuator 9f, manual operation	9	79235 SEC	199,00	1

2.2 KNX Secure Switching Actuators 16A C Load 140μF



KNX Secure switching actuator 3 fold


- FDSK on frontplate for easy read access
- 3 channels for 3 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VA, suitable for C load up to 140μF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
AH3F16H-SEC  4 260049 689956	KNX Secure switching actuator 3 fold, manual operation	3	79236 SEC	114,00	1



KNX Secure switching actuator 5 fold


- FDSK on frontplate for easy read access
- 5 channels for 5 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 140μF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
AH5F16H-SEC  4 260049 689949	KNX Secure switching actuator 5 fold, manual operation	4	79237 SEC	135,00	1



KNX Secure switching actuator 9 fold

- FDSK on frontplate for easy read access
- 9 channels for 9 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 140μF


product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
AH9F16H-SEC  4 260049 689932	KNX Secure switching actuator 9 fold, manual operation	6	79238 SEC	164,00	1

2.3 KNX Secure Dimmers



KNX Secure 1-10V interface 4 fold

- FDSK on frontplate for easy read access
- 4 channels for 4 independent load circuits
- manual operation for each channel
- switching capacity per channel: 16A 250VAC, suitable for C load up to 140μF
- 1-10V control output per channel: max. 20 loads


product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
DIM4F110H-SEC  4 260049 689925	KNX Secure 1-10V interface 4fold, manual operation	4	77611 SEC	145,00	1

2.4 KNX Secure Blind / Shutter Actuators



KNX Secure blind / shutter actuator 2 fold 10A


- FDSK on frontplate for easy read access
- 2 channels for 2 independent electrical drives
- manual operation for each channel
- time functions, positions, scenes (8), alarm function, inhibit function, status
- switching capacity per channel: 10A 250VAC
- mechanical contact locking for each channel

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
J2F10H-SEC  4 260049 689918	KNX Secure blind / shutter actuator 2 fold 10A, manual operation	3	79436 SEC	129,00	1



KNX Secure blind / shutter actuator 4 fold 10A


- FDSK on frontplate for easy read access
- 4 channels for 4 independent electrical drives
- manual operation for each channel
- time functions, positions, scenes (8), alarm function, inhibit function, status
- switching capacity per channel: 10A 250VAC
- mechanical contact locking for each channel

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
J4F10H-SEC  4 260049 689901	KNX Secure blind / shutter actuator 4 fold 10A, manual operation	4	79437 SEC	174,00	1



KNX Secure blind / shutter actuator 6 fold 10A

- FDSK on frontplate for easy read access
- 6 channels for 6 independent electrical drives
- manual operation for each channel
- time functions, positions, scenes (8), alarm function, inhibit function, status
- switching capacity per channel: 10A 250VAC
- mechanical contact locking for each channel

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
J6F10H-SEC  4 260049 689895	KNX Secure blind / shutter actuator 6 fold 10A, manual operation	6	79438 SEC	219,00	1

2.5 KNX Secure Binary Inputs / Binary Outputs 16A C load 200µF



KNX Secure binary input / binary output 4 fold

- inputs for dry contacts
- max. cable length 100m
- manual operation for each output channel
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
BEA4FK16H-SEC 4 260049 689864	KNX Secure binary input / binary output 4 fold, for dry contacts, manual operation	6	79243 SEC	158,00	1



KNX Secure binary input / binary output 4 fold

- 230VAC inputs
- manual operation for each output channel
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
BEA4F230H-SEC 4 260049 689857	KNX Secure binary input / binary output 4 fold, signal voltage 230V, manual operation	6	79244 SEC	158,00	1



KNX Secure binary input / binary output 4 fold


- 24V AC/DC inputs
- manual operation for each output channel
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
BEA4F24H-SEC 4 260049 689833	KNX Secure binary input / binary output 4 fold, signal voltage 24V, manual operation	6	79246 SEC	158,00	1

KNX Secure binary input / binary output 8 fold




- inputs for dry contacts
- max. cable length 100m
- manual operation for each output channel
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
BEA8FK16H-SEC  4 260049 689888	KNX Secure binary input / binary output 8 fold, for dry contacts, manual operation	9	79241 SEC	245,00	1

KNX Secure binary input / binary output 8 fold




- 230VAC inputs
- manual operation for each output channel
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
BEA8F230H-SEC  4 260049 689871	KNX Secure binary input / binary output 8 fold, signal voltage 230V, manual operation	9	79242 SEC	245,00	1

KNX Secure binary input / binary output 8 fold



- 24V AC/DC inputs
- manual operation for each output channel
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF


product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
BEA8F24H-SEC  4 260049 689840	KNX Secure binary input / binary output 8 fold, signal voltage 24V, manual operation	9	79245 SEC	245,00	1

2.6 KNX Secure Binary Inputs



KNX Secure binary input 4 fold


- FDSK on frontplate for easy read access
- inputs for dry contacts
- max. cable length 100m
- switching, dimming, blind / shutter control, values, counters

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
BE4FK-SEC  4 260049 689826	KNX Secure binary input 4 fold, for dry contacts	4	79531 SEC	138,00	1



KNX Secure binary input 4 fold

- FDSK on frontplate for easy read access
- 230VAC inputs
- switching, dimming, blind / shutter control, values, counters



product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
BE4F230-SEC  4 260049 689819	KNX Secure binary input 4 fold, signal voltage 230V	4	79532 SEC	141,00	1

2.7 KNX Secure Push Buttons and Temperature Sensors Exclusiv 55

KNX Secure flush mount push button 4+4fold, 4 binary inputs / outputs




- Exclusiv 55 series, rocker dimensions 55x55mm
- suitable for frames of various manufacturers
- complete set with flush mount KNX bus coupling unit
- 4 integrated inputs for dry contacts
- 4 integrated outputs for LEDs
- suitable cable sets 87183 - 87185
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- integrated temperature and humidity sensor possible.
- rockers and cover frames have to be ordered separately
- for suitable cover frames see 8.1
- ETS application: ta8fxt-sec-en-de-30.knxprod

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
TA4F55-BCU-SEC  4 260049 689802	flush mount push button 4+4fold 55x55mm, 4 binary inputs / outputs, including KNX Secure bus coupling unit, without rockers, without cover frames, without cable sets	-	87860 SEC	49,00	2
TA4F55TH-BCU-SEC  4 260049 689796	flush mount push button 4+4fold 55x55mm, 4 binary inputs / outputs, integrated temperature and humidity sensor, including KNX Secure bus coupling unit, without rockers, without cover frames, without cable sets	-	87861 SEC	59,00	2

flush mount push button 4fold, 24V





- Exclusiv 55 series, rocker dimensions 55x55mm
- extension for 87860 and 87861
- extension for 87195-RW, 87196-AZ and 87197-WA
- suitable for frames of various manufacturers
- connection via 6gang screwless terminal block
- suitable cable sets 87183 - 87185
- 24VDC 40mA max.
- rockers and cover frames have to be ordered separately
- for suitable cover frames see 8.1

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
TA4F55-SAT-E  4 260049 680014	flush mount push button 4fold 55x55mm, 24V, without rockers, without cover frames, without cable sets	-	87864	15,80	2

KNX Secure flush mount push button 8fold






- Exclusiv 55 series, rocker dimensions 55x55mm
- suitable for frames of various manufacturers
- complete set with flush mount KNX bus coupling unit
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- integrated temperature and humidity sensor possible.
- rockers and cover frames have to be ordered separately
- for suitable cover frames see 8.1
- ETS application: ta8fxt-sec-en-de-30.knxprod

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
TA8F55-BCU-SEC  4 260049 689789	KNX Secure flush mount push button 8fold 55x55mm, including KNX bus coupling unit, without rockers, without cover frames	-	87865 SEC	58,00	2
TA8F55TH-BCU-SEC  4 260049 689772	KNX Secure flush mount push button 8fold 55x55mm, integrated temperature and humidity sensor, including KNX bus coupling unit, without rockers, without cover frames	-	87866 SEC	68,00	2



KNX Secure temperature- and humidity sensor integrated in pluggable cover

- temperature range -40°C ... 120°C
- relative humidity range 0% ... 100%
- 8 integrated inputs for dry contacts
- 8 integrated outputs for LEDs
- Exclusiv 55 series, standard cover 55x55mm
- suitable for frames of various manufacturers
- completely delivered with flush mount KNX bus coupling unit without cable sets (87180 – 87185)
- colours: similar to pure white RAL 9010, anthracite, aluminium white
- for suitable cover frames see 8.1

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
ALTF55-BCU-SEC-RW 	temperature and humidity sensor in pluggable cover 55x55, pure white, including KNX Secure bus coupling unit, without cover frames, without cable sets	-	87195 SEC-RW	55,00	1
ALTF55-BCU-SEC-AZ 	temperature and humidity sensor in pluggable cover 55x55, anthracite, including KNX Secure bus coupling unit, without cover frames, without cable sets	-	87196 SEC-AZ	59,00	1
ALTF55-BCU-SEC-WA 	temperature and humidity sensor in pluggable cover 55x55, aluminium white, including KNX Secure bus coupling unit, without cover frames, without cable sets	-	87197 SEC-WA	59,00	1



rocker units, neutral

- suitable for Exclusiv 55 series KNX push buttons
- different colours
- without laser engraving
- for suitable cover frames see 8.1



product code / EAN	product designation	order no.	EUR / pc.*	PG
FL-1-RW  4 260049 685293	single rocker unit, no symbol, pure white alike RAL 9010	87870-RW	2,55	3
FL-1-WM  4 260049 688508	single rocker unit, no symbol, pure white silk mat	87850-WM	4,88	3
FL-1-AZ  4 260049 685309	single rocker unit, no symbol, anthracite	87880-AZ	4,88	3
FL-1-WA  4 260049 685316	single rocker unit, no symbol, alu silver silk gloss	87890-WA	4,88	3
FL-2-RW  4 260049 685323	double rocker unit, no symbol, pure white alike RAL 9010	87875-RW	4,06	3
FL-2-WM  4 260049 688515	double rocker unit, no symbol, pure white silk mat	87855-WM	8,37	3
FL-2-AZ  4 260049 685330	double rocker unit, no symbol, anthracite	87885-AZ	8,37	3
FL-2-WA  4 260049 685347	double rocker unit, no symbol, alu silver silk gloss	87895-WA	8,37	3



rocker units, symbol 1-0

- suitable for Exclusiv 55 series KNX push buttons
- different colours
- with laser engraving, symbol 1-0
- for suitable cover frames see 8.1





product code / EAN	product designation	order no.	EUR / pc.*	PG
FL-1-EA-RW  4 260049 685354	single rocker unit, symbol 1-0, pure white alike RAL 9010	87871-RW	4,51	3
FL-1-EA-WM  4 260049 685522	single rocker unit, symbol 1-0, pure white silk mat	87851-WM	8,25	3
FL-1-EA-AZ  4 260049 685361	single rocker unit, symbol 1-0, anthracite	87881-AZ	8,25	3
FL-1-EA-WA  4 260049 685378	single rocker unit, symbol 1-0, alu silver silk gloss	87891-WA	8,25	3
FL-2-EA-RW  4 260049 685385	double rocker unit, symbol 1-0, pure white alike RAL 9010	87876-RW	5,97	3
FL-2-EA-WM  4 260049 685399	double rocker unit, symbol 1-0, pure white silk mat	87856-WM	10,48	3
FL-2-EA-AZ  4 260049 685392	double rocker unit, symbol 1-0, anthracite	87886-AZ	10,48	3
FL-2-EA-WA  4 260049 685408	double rocker unit, symbol 1-0, alu silver silk gloss	87896-WA	10,48	3



rocker units, symbol arrow

- suitable for Exclusiv 55 series KNX push buttons
- different colours
- with laser engraving, symbol arrow
- for suitable cover frames see 8.1









product code / EAN	product designation	order no.	EUR / pc.*	PG
FL-1-PF-RW  4 260049 685415	single rocker unit, symbol arrow, pure white alike RAL 9010	87872-RW	4,51	3
FL-1-PF-WM  4 260049 688546	single rocker unit, symbol arrow, pure white silk mat	87852-WM	8,25	3
FL-1-PF-AZ  4 260049 685422	single rocker unit, symbol arrow, anthracite	87882-AZ	8,25	3
FL-1-PF-WA  4 260049 687921	single rocker unit, symbol arrow, alu silver silk gloss	87892-WA	8,25	3
FL-2-PF-RW  4 260049 687938	double rocker unit, symbol arrow, pure white alike RAL 9010	87877-RW	5,97	3
FL-2-PF-WM  4 260049 688553	double rocker unit, symbol arrow, pure white silk mat	87857-WM	10,48	3
FL-2-PF-AZ  4 260049 687945	double rocker unit, symbol arrow, anthracite	87887-AZ	10,48	3
FL-2-PF-WA  4 260049 687952	double rocker unit, symbol arrow, alu silver silk gloss	87897-WA	10,48	3



separate wire cable sets

- suitable for KNX flush mount push button units 87860, 87861 and temperature- and humidity sensors 87195-RW, 87196-AZ, 87197-WA
- for channels A,B,C,D: black, brown, red, orange, yellow
- for channels E,F,G,H: black, green, blue, violet, grey

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
EAKAB-ABCD-20  4 260049 687297	separate wire cable set for channels A,B,C,D length 20cm	-	87180	3,40	1
EAKAB-ABCD-30  4 260049 687303	separate wire cable set for channels A,B,C,D length 30cm	-	87181	3,60	1
EAKAB-ABCD-60  4 260049 687310	separate wire cable set for channels A,B,C,D length 60cm	-	87182	4,30	1
EAKAB-EFGH-20  4 260049 687327	separate wire cable set for channels E,F,G,H length 20cm	-	87183	3,40	1
EAKAB-EFGH-30  4 260049 687334	separate wire cable set for channels E,F,G,H length 30cm	-	87184	3,60	1
EAKAB-EFGH-60  4 260049 687341	separate wire cable set for channels E,F,G,H length 60cm	-	87185	4,30	1


2.8 KNX Secure Push Button Interfaces



deviating picture

KNX Secure push button interface 4 fold, with separate wire connectors

- for single button control and rockers
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- inputs for dry contacts
- separate wires for input connection (20cm)


product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
TS4F-2-SEC 	KNX Secure push button interface with 4 inputs, with separate wires	-	79880 SEC	52,00	1



deviating picture

KNX Secure push button interface 8 fold, with separate wire connectors

- for single button control and rockers
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8), usable for logic
- inputs for dry contacts
- separate wires for input connection (20cm)


product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
TS8F-2-SEC 	KNX Secure push button interface with 8 inputs, with separate wires	-	79882 SEC	62,00	1



deviating picture

KNX Secure push button interface 4 fold with LEDs, with separate wire connectors

- for single button control and rockers
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- inputs for dry contacts
- separate wires for input connection (20cm)

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
TS4FL-2-SEC 	KNX Secure push button interface with 4 inputs and 4 outputs (LEDs), with separate wires	-	79881 SEC	57,00	1



3 KNX System Devices

3.1 KNX Power Supplies



KNX power supply 640mA / 1280mA


- made in China
- with integrated choke
- bus voltage output via bus connectors
- separate auxiliary voltage output via screw terminals

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
NT640-3 	KNX power supply 640mA	3	88409	110,00	1
NT1280-4 	KNX power supply 1280mA (no picture)	4	88410	165,00	1



KNX power supply 640mA


- with integrated choke
- bus voltage output via bus connectors
- separate auxiliary voltage output via auxiliary connector

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
NT640-43 	KNX power supply 640mA	4	88415	220,00	1



KNX power supply 320mA

- with integrated choke
- bus voltage output via bus connectors
- separate auxiliary voltage output via auxiliary connector


product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
NT320-43 	KNX power supply 320mA	4	88416	185,00	1

3.2 KNX Line Coupler / Backbone Coupler



KNX line coupler / backbone coupler

- for connection of independent bus lines (for TP only)
- connection via bus connectors
- supports long frames


product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
LK2-2  4 260049 680298	KNX line coupler / backbone coupler	2	88502	249,00	1

3.3 KNX Interfaces



KNX USB interface


- power supply via KNX bus
- supports long frames

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
COMUSB-REG-1  4 260049 684906	KNX standard USB interface	1	89340	190,00	1



KNX IP interface



- power supply via KNX bus
- supports long frames

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
COMIP-REG-1  4 260049 687068	KNX standard IP interface	1	87341	199,00	1



KNX bus connectors

- colours red / black for KNX bus
- colours yellow / white for auxiliary voltage
- package unit: 50 pieces

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
AK-1  4 260049 688041	KNX bus connector red/black (50 pcs.)	-	88322	26,50	1
AK-2  4 260049 688058	KNX bus connector yellow/white (50 pcs.)	-	88323	26,50	1


4 KNX Secure Smart Metering Products

4.1 KNX Secure Electricity Meters



**EMU standard KNX DIN RAIL electricity meter,
direct measurement,
KNX Secure and KNX quick**


- unidirectional 3 phase electricity meter
- active energy, active power, voltage, current, power factor, 4 tariffs
- max. 75A per phase
- with integrated KNX bus coupling unit, KNX quick included
- price including calibration fee
- programmable via ETS with coding switches set to 0
- ETS application: EZD_SEC_en_de_30.knxprod, type 8b

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
EZ-EMU-DSTD-D-REG-FW  4 260049 689703	KNX electricity meter EMU standard, 3-phase, direct measurement	5	87765 SEC	279,00	4



**EMU superior KNX DIN RAIL electricity meter,
direct measurement,
KNX Secure and KNX quick**


- bidirectional 3 phase electricity meter
- active and reactive energy, active and reactive power, voltage, current, power factor, 4 tariffs
- max. 75A per phase
- 4 additional switching outputs
- with integrated KNX bus coupling unit, KNX quick included
- price including calibration fee
- programmable via ETS with coding switches set to 0
- ETS application: EZD_SEC_en_de_30.knxprod, type 9a

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
EZ-EMU-DSUP-D-REG-FW  4 260049 689697	KNX electricity meter EMU superior, 3-phase, direct measurement	5	87766 SEC	319,00	4



**EMU standard KNX DIN RAIL electricity meter,
for current transformers,
KNX Secure and KNX quick**


- unidirectional 3 phase electricity meter
- active energy, active power, voltage, current, power factor, 4 tariffs
- current transformer ratio selectable for 1A (max. 4000/1) and 5A (max. 20000/5)
- with integrated KNX bus coupling unit, KNX quick included
- price including calibration fee
- programmable via ETS with coding switches set to 0
- ETS application: EZD_SEC_en_de_30.knxprod, type 8b

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
EZ-EMU-WSTD-D-REG-FW 	KNX electricity meter EMU standard, 3-phase, for current transformers	5	87773 SEC	279,00	4



**EMU superior KNX DIN RAIL electricity meter,
for current transformers,
KNX Secure and KNX quick**


- bidirectional 3 phase electricity meter
- active and reactive energy, active and reactive power, voltage, current, power factor, 4 tariffs
- current transformer ratio selectable for 1A (max. 4000/1) and 5A (max. 20000/5)
- 4 additional switching outputs
- with integrated KNX bus coupling unit, KNX quick included
- price including calibration fee
- programmable via ETS with coding switches set to 0
- ETS application: EZD_SEC_en_de_30.knxprod, type 9a

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
EZ-EMU-WSUP-D-REG-FW 	KNX electricity meter EMU superior, 3-phase, for current transformers	5	87774 SEC	319,00	4



**EMU 1-phase KNX DIN RAIL electricity meter,
KNX Secure and KNX quick**

- unidirectional 1 phase electricity meter
- active energy, active power, voltage, current, power factor
- max. 40A
- KNX bus coupling unit in external 2RU DIN RAIL box,
- KNX quick included
- price including calibration fee
- programmable via ETS with coding switches set to 0
- ETS application: EZD_SEC_en_de_30.knxprod, type 1a

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
EZ-EMU-1PH-D-REG-FW  4 260049 689666	KNX electricity meter EMU, 1-phase, direct measurement	3	87763 SEC	247,50	4





deviating picture

eHZ KNX interface (also for 3.HZ meters),





KNX Secure and KNX quick

- suitable for domestic elec. meters of type eHZ
- also suitable for domestic elec. meters of type 3.HZ
- specifically designed for the german market
- several optical reading heads available
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: EZD_SEC_en_de_30.knxprod, type 4c/6c

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
BCU-EZ-EHZ-RJ10-OPT1-D-REG-FW 	KNX eHZ interface with optical reading head	2	87798 SEC	159,00	4
BCU-EZ-EHZ-RJ10-D-REG-FW 	KNX eHZ interface without optical reading head (for 87220, 87221, 87222)	2	87796 SEC	110,00	4



accessories for eHZ KNX interface

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
OPTO-FL 	accessories for meters, optical reading head plain, with RJ10 connector,	-	87220	35,00	4
OPTO-AD 	accessories for meters, adapter EasyMeter, for use with 87220	-	87210	5,00	4
OPTO-RD 	accessories for meters, optical reading head round, with RJ10 connector, magnetic	-	87221	59,00	4
RJ10KAB 	accessories for meters, datacable for meters with connector socket RJ10	-	87222	5,00	4

4.2 KNX Secure Heat Meters



Kamstrup ultrasonic heat meter Multical 603, KNX Secure and KNX quick

- electronic heat meter
- accuracy class 2
- MID approval according to DIN EN 1434
- ultrasonic flow sensor
- calculator detachable from flow sensor, wall mounting set included
- two temperature sensors with 1.5m cable
- up to Qp 6 m³/h short direct sensor incl. nipple
- from Qp 10 m³/h pocket sensor incl. sensor pocket
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC_SEC_en_de_30.knxprod, type 5
- other dimensions on request

product code		product designation						
KAM-MC603		KNX heat meter Kamstrup Multical 603						
nominal flow Qp	DN	length	thread	mount position	temp. range	order no.	EUR / pc.*	PG
0,6 m³/h	DN15	110mm	G3/4	any	15-130°C	84801 SEC	390,00	5
0,6 m³/h	DN20	190mm	G1	any	15-130°C	84802 SEC	428,00	5
1,5 m³/h	DN15	110mm	G3/4	any	15-130°C	84803 SEC	390,00	5
1,5 m³/h	DN15	165mm	G3/4	any	15-130°C	84804 SEC	428,00	5
1,5 m³/h	DN20	130mm	G1	any	15-130°C	84805 SEC	392,00	5
1,5 m³/h	DN20	190mm	G1	any	15-130°C	84806 SEC	428,00	5
2,5 m³/h	DN20	190mm	G1	any	15-130°C	84808 SEC	428,00	5
3,5 m³/h	DN25	260mm	G1 1/4	any	15-130°C	84809 SEC	651,00	5
6 m³/h	DN25	260mm	G1 1/4	any	15-130°C	84810 SEC	670,00	5
10 m³/h	DN40	300mm	G2	any	15-130°C	84811 SEC	870,00	5
15 m³/h	DN50	270mm	flange	any	15-130°C	84812 SEC	1099,00	5
25 m³/h	DN65	300mm	flange	any	15-130°C	84813 SEC	1337,00	5
40 m³/h	DN80	300mm	flange	any	15-130°C	84814 SEC	1660,00	5
60 m³/h	DN100	360mm	flange	any	15-130°C	84815 SEC	2376,00	5
100 m³/h	DN100	360mm	flange	any	15-130°C	84816 SEC	3255,00	5
100 m³/h	DN125	350mm	flange	any	15-130°C	84817 SEC	3497,00	5



Kamstrup ultrasonic heat and cooling meter Multical 603, KNX Secure and KNX quick

- electronic heat and cooling meter
- accuracy class 2
- MID approval according to DIN EN 1434
- ultrasonic flow sensor
- calculator detachable from flow sensor, wall mounting set included
- two temperature sensors with 1.5m cable
- up to Qp 6 m³/h short direct sensor incl. nipple
- from Qp 10 m³/h pocket sensor incl. sensor pocket
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC_SEC_en_de_30.knxprod, type 6
- other dimensions on request

product code		product designation						
KAM-MC603		KNX heat and cooling meter Kamstrup Multical 603						
nominal flow Qp	DN	length	thread	mount position	temp. range	order no.	EUR / pc.*	PG
0,6 m³/h	DN15	110mm	G3/4	any	15-130°C	84821 SEC	390,00	5
0,6 m³/h	DN20	190mm	G1	any	15-130°C	84822 SEC	428,00	5
1,5 m³/h	DN15	110mm	G3/4	any	15-130°C	84823 SEC	390,00	5
1,5 m³/h	DN15	165mm	G3/4	any	15-130°C	84824 SEC	428,00	5
1,5 m³/h	DN20	130mm	G1	any	15-130°C	84825 SEC	392,00	5
1,5 m³/h	DN20	190mm	G1	any	15-130°C	84826 SEC	428,00	5
2,5 m³/h	DN20	190mm	G1	any	15-130°C	84828 SEC	428,00	5
3,5 m³/h	DN25	260mm	G1 1/4	any	15-130°C	84829 SEC	651,00	5
6 m³/h	DN25	260mm	G1 1/4	any	15-130°C	84830 SEC	670,00	5
10 m³/h	DN40	300mm	G2	any	15-130°C	84831 SEC	870,00	5
15 m³/h	DN50	270mm	flange	any	15-130°C	84832 SEC	1099,00	5
25 m³/h	DN65	300mm	flange	any	15-130°C	84833 SEC	1337,00	5
40 m³/h	DN80	300mm	flange	any	15-130°C	84834 SEC	1660,00	5
60 m³/h	DN100	360mm	flange	any	15-130°C	84835 SEC	2376,00	5
100 m³/h	DN100	360mm	flange	any	15-130°C	84836 SEC	3255,00	5
100 m³/h	DN125	350mm	flange	any	15-130°C	84837 SEC	3497,00	5



Kamstrup ultrasonic cooling meter Multical 603, KNX Secure and KNX quick

- electronic cooling meter
- accuracy class 2
- MID approval according to DIN EN 1434
- ultrasonic flow sensor
- calculator detachable from flow sensor, wall mounting set included
- two temperature sensors with 1.5m cable
- up to Qp 6 m³/h short direct sensor incl. nipple
- from Qp 10 m³/h pocket sensor incl. sensor pocket
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC_SEC_en_de_30.knxprod, type 6
- other dimensions on request

product code		product designation						
KAM-MC603		KNX cooling meter Kamstrup Multical 603						
nominal flow Qp	DN	length	thread	mount position	temp. range	order no.	EUR / pc.*	PG
1,5 m³/h	DN15	110mm	G3/4	any	1-50°C	84843 SEC	390,00	5
1,5 m³/h	DN20	130mm	G1	any	1-50°C	84845 SEC	392,00	5
1,5 m³/h	DN20	190mm	G1	any	1-50°C	84846 SEC	428,00	5
2,5 m³/h	DN20	190mm	G1	any	1-50°C	84848 SEC	428,00	5
3,5 m³/h	DN25	260mm	G1 1/4	any	1-50°C	84849 SEC	651,00	5
6 m³/h	DN25	260mm	G1 1/4	any	1-50°C	84850 SEC	670,00	5
10 m³/h	DN40	300mm	G2	any	1-50°C	84851 SEC	870,00	5
15 m³/h	DN50	270mm	flange	any	1-50°C	84852 SEC	1099,00	5
25 m³/h	DN65	300mm	flange	any	1-50°C	84853 SEC	1337,00	5
40 m³/h	DN80	300mm	flange	any	1-50°C	84854 SEC	1660,00	5
60 m³/h	DN100	360mm	flange	any	1-50°C	84855 SEC	2376,00	5
100 m³/h	DN100	360mm	flange	any	1-50°C	84856 SEC	3255,00	5
100 m³/h	DN125	350mm	flange	any	1-50°C	84857 SEC	3497,00	5



Kamstrup ultrasonic heat meter Multical 403, KNX Secure and KNX quick

- electronic heat meter
- accuracy class 2
- MID approval according to DIN EN 1434
- ultrasonic flow sensor
- compact meter, calculator not detachable
- two temperature sensors with 1.5m cable
- up to Qp 6 m³/h short direct sensor incl. nipple
- from Qp 10 m³/h pocket sensor incl. sensor pocket
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC_SEC_en_de_30.knxprod, type 5

product code		product designation						
KAM-MC403		KNX heat meter Kamstrup Multical 403						
nominal flow Qp	DN	length	thread	mount position	temp. range	order no.	EUR / pc.*	PG
0,6 m³/h	DN15	110mm	G3/4	any	15-130°C	84701 SEC	294,00	5
0,6 m³/h	DN20	190mm	G1	any	15-130°C	84702 SEC	299,00	5
1,5 m³/h	DN15	110mm	G3/4	any	15-130°C	84703 SEC	294,00	5
1,5 m³/h	DN15	165mm	G3/4	any	15-130°C	84704 SEC	299,00	5
1,5 m³/h	DN20	130mm	G1	any	15-130°C	84705 SEC	299,00	5
1,5 m³/h	DN20	190mm	G1	any	15-130°C	84706 SEC	299,00	5
2,5 m³/h	DN20	130mm	G1	any	15-130°C	84707 SEC	299,00	5
2,5 m³/h	DN20	190mm	G1	any	15-130°C	84708 SEC	299,00	5
3,5 m³/h	DN25	260mm	G1 1/4	any	15-130°C	84709 SEC	445,00	5
6 m³/h	DN25	260mm	G1 1/4	any	15-130°C	84710 SEC	452,00	5
10 m³/h	DN40	300mm	G2	any	15-130°C	84711 SEC	697,00	5
6 m³/h	DN25	260mm	flange	any	15-130°C	84712 SEC	624,00	5
10 m³/h	DN40	300mm	flange	any	15-130°C	84713 SEC	750,00	5
15 m³/h	DN50	270mm	flange	any	15-130°C	84714 SEC	834,00	5



Kamstrup ultrasonic heat and cooling meter Multical 403, KNX Secure and KNX quick

- electronic heat and cooling meter
- accuracy class 2
- MID approval according to DIN EN 1434
- ultrasonic flow sensor
- compact meter, calculator not detachable
- two temperature sensors with 1.5m cable
- up to Qp 6 m³/h short direct sensor incl. nipple
- from Qp 10 m³/h pocket sensor incl. sensor pocket
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC_SEC_en_de_30.knxprod, type 6

product code		product designation						
KAM-MC403		KNX heat and cooling meter Kamstrup Multical 403						
nominal flow Qp	DN	length	thread	mount position	temp. range.	order no.	EUR / pc.*	PG
0,6 m ³ /h	DN15	110mm	G3/4	any	15-130°C	84721 SEC	294,00	5
0,6 m ³ /h	DN20	190mm	G1	any	15-130°C	84722 SEC	299,00	5
1,5 m ³ /h	DN15	110mm	G3/4	any	15-130°C	84723 SEC	294,00	5
1,5 m ³ /h	DN15	165mm	G3/4	any	15-130°C	84724 SEC	299,00	5
1,5 m ³ /h	DN20	130mm	G1	any	15-130°C	84725 SEC	299,00	5
1,5 m ³ /h	DN20	190mm	G1	any	15-130°C	84726 SEC	299,00	5
2,5 m ³ /h	DN20	130mm	G1	any	15-130°C	84727 SEC	299,00	5
2,5 m ³ /h	DN20	190mm	G1	any	15-130°C	84728 SEC	299,00	5
3,5 m ³ /h	DN25	260mm	G1 1/4	any	15-130°C	84729 SEC	445,00	5
6 m ³ /h	DN25	260mm	G1 1/4	any	15-130°C	84730 SEC	452,00	5
10 m ³ /h	DN40	300mm	G2	any	15-130°C	84731 SEC	697,00	5
6 m ³ /h	DN25	260mm	flange	any	15-130°C	84732 SEC	624,00	5
10 m ³ /h	DN40	300mm	flange	any	15-130°C	84733 SEC	750,00	5
15 m ³ /h	DN50	270mm	flange	any	15-130°C	84734 SEC	834,00	5



Kamstrup ultrasonic cooling meter Multical 403, KNX Secure and KNX quick

- electronic cooling meter
- accuracy class 2
- MID approval according to DIN EN 1434
- ultrasonic flow sensor
- compact meter, calculator not detachable
- two temperature sensors with 1.5m cable
- up to Qp 6 m³/h short direct sensor incl. nipple
- from Qp 10 m³/h pocket sensor incl. sensor pocket
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC_SEC_en_de_30.knxprod, type 6

product code		product designation						
KAM-MC403		KNX cooling meter Kamstrup Multical 403						
nominal flow Qp	DN	length	thread	mount position	temp. range	order no.	EUR / pc.*	PG
0,6 m ³ /h	DN20	190mm	G1	any	1-50°C	84742 SEC	299,00	5
1,5 m ³ /h	DN15	110mm	G3/4	any	1-50°C	84743 SEC	294,00	5
1,5 m ³ /h	DN15	165mm	G3/4	any	1-50°C	84744 SEC	299,00	5
1,5 m ³ /h	DN20	130mm	G1	any	1-50°C	84745 SEC	299,00	5
1,5 m ³ /h	DN20	190mm	G1	any	1-50°C	84746 SEC	299,00	5
2,5 m ³ /h	DN20	130mm	G1	any	1-50°C	84747 SEC	299,00	5
2,5 m ³ /h	DN20	190mm	G1	any	1-50°C	84748 SEC	299,00	5
3,5 m ³ /h	DN25	260mm	G1 1/4	any	1-50°C	84749 SEC	445,00	5
6 m ³ /h	DN25	260mm	G1 1/4	any	1-50°C	84750 SEC	452,00	5
10 m ³ /h	DN40	300mm	G2	any	1-50°C	84751 SEC	697,00	5
6 m ³ /h	DN25	260mm	flange	any	1-50°C	84752 SEC	624,00	5
10 m ³ /h	DN40	300mm	flange	any	1-50°C	84753 SEC	750,00	5
15 m ³ /h	DN50	270mm	flange	any	1-50°C	84754 SEC	834,00	5

4.3 KNX Secure Water Meters



GWF single jet water meter UNICOCoder MP, KNX Secure and KNX quick

- single jet water meter for cold water
- with absolute encoder register
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: KWZC_SEC_en_de_30.knxprod, type 2

product code		product designation						
GWF-UNICO		KNX cold water meter GWF UNICOCoder MP						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
2,5 m ³ /h	DN15	110mm	G3/4	any	30°C	85500 SEC	192,00	5
2,5 m ³ /h	DN20	130mm	G1	any	30°C	85501 SEC	193,00	5
4 m ³ /h	DN20	130mm	G1	any	30°C	85502 SEC	194,00	5



GWF single jet water meter UNICOCoder MP, KNX Secure and KNX quick

- single jet water meter for warm water
- with absolute encoder register
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: KWZC_SEC_en_de_30.knxprod, type 2

product code		product designation						
GWF-UNICO		KNX warm water meter GWF UNICOCoder MP						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
2,5 m ³ /h	DN15	110mm	G3/4	any	90°C	85503 SEC	192,00	5
2,5 m ³ /h	DN20	130mm	G1	any	90°C	85504 SEC	193,00	5
4 m ³ /h	DN20	130mm	G1	any	90°C	85505 SEC	194,00	5



**GWF multi jet water meter MTKcoder MP,
KNX Secure and KNX quick**

- multi jet water meter for cold water
- super dry-dial
- with absolute encoder register
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: KWZC_SEC_en_de_30.knxprod, type 2

product code		product designation						
GWF-MTK		KNX cold water meter GWF MTKcoder MP						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
2,5 m³/h	DN15	165mm	G3/4	horizontal	30°C	85520 SEC	472,00	5
4 m³/h	DN20	190mm	G1	horizontal	30°C	85521 SEC	472,00	5
6,3 m³/h	DN25	260mm	G1 1/4	horizontal	30°C	85523 SEC	503,00	5
10 m³/h	DN32	260mm	G1 1/2	horizontal	30°C	85525 SEC	519,00	5
16 m³/h	DN40	300mm	G2	horizontal	30°C	85526 SEC	661,00	5
25 m³/h	DN50	300mm	G2 3/8	horizontal	30°C	85527 SEC	698,00	5
16 m³/h	DN40	300mm	flange	horizontal	30°C	85528 SEC	661,00	5
25 m³/h	DN50	300mm	flange	horizontal	30°C	85529 SEC	698,00	5



GWF multi jet water meter MTWcoder MP,

KNX Secure and KNX quick

- multi jet water meter for warm water
- super dry-dial
- with absolute encoder register
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: KWZC_SEC_en_de_30.knxprod, type 2

product code		product designation						
GWF-MTW		KNX warm water meter GWF MTWcoder MP						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
2,5 m³/h	DN15	165mm	G3/4	horizontal	90°C	85540 SEC	432,00	5
4 m³/h	DN20	190mm	G1	horizontal	90°C	85541 SEC	432,00	5
6,3 m³/h	DN25	260mm	G1 1/4	horizontal	90°C	85543 SEC	472,00	5
10 m³/h	DN25	260mm	G1 1/4	horizontal	90°C	85544 SEC	478,00	5
10 m³/h	DN32	260mm	G1 1/2	horizontal	90°C	85545 SEC	478,00	5
16 m³/h	DN40	300mm	G2	horizontal	90°C	85546 SEC	605,00	5
25 m³/h	DN50	300mm	G2 3/8	horizontal	90°C	85547 SEC	675,00	5
4 m³/h	DN20	190mm	flange	horizontal	90°C	85548 SEC	on request	5
6,3 m³/h	DN25	260mm	flange	horizontal	90°C	85549 SEC	on request	5
10 m³/h	DN25	260mm	flange	horizontal	90°C		on request	5
10 m³/h	DN32	260mm	flange	horizontal	90°C	85550 SEC	on request	5
16 m³/h	DN40	300mm	flange	horizontal	90°C	85551 SEC	on request	5
25 m³/h	DN50	300mm	flange	horizontal	90°C	85552 SEC	on request	5

4.4 KNX Secure Gas Meters



Elster single adapter gas meter BK-G4T, KNX Secure and KNX quick

- diaphragm gas meter
- with Absolute ENCODER index
- including KNX interface in separate, wall mounted box
- prices including calibration fee
- other dimensions on request
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: GZC_SEC_en_de_30.knxprod, type 2

product code	product designation	DN	measuring range	order no.	EUR / pc.*	PG
BK-G4T	KNX gas meter, single adapter, Elster	DN25	0,04 – 6 m³/h	85802 SEC	372,00	5



Elster double adapter gas meter BK-GxA, KNX Secure and KNX quick

- diaphragm gas meter
- with Absolute ENCODER index
- including KNX interface in separate, wall mounted box
- prices including calibration fee
- other dimensions on request
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: GZC_SEC_en_de_30.knxprod, type 2

deviating picture

product code	product designation	DN	measuring range	order no.	EUR / pc.*	PG
BK-G4A	KNX gas meter, double adapter, Elster	DN25	0,04 – 6 m³/h	85801 SEC	372,00	5
BK-G4A	KNX gas meter, double adapter, Elster	DN20	0,04 – 6 m³/h	85805 SEC	372,00	5
BK-G6A	KNX gas meter, double adapter, Elster	DN32	0,06 – 10 m³/h	85808 SEC	446,00	5
BK-G10A	KNX gas meter, double adapter, Elster	DN40	0,10 – 16 m³/h	85807 SEC	814,00	5
BK-G16A	KNX gas meter, double adapter, Elster	DN40	0,16 – 25 m³/h	85804 SEC	826,00	5
BK-G25A	KNX gas meter, double adapter, Elster	DN50	0,25 – 40 m³/h	85809 SEC	1104,00	5

5 Visualisation


5.1 Symcon



starter package Symbox

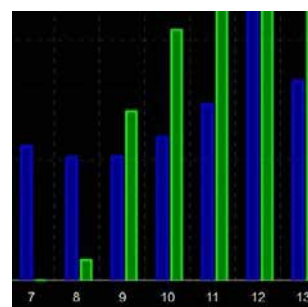
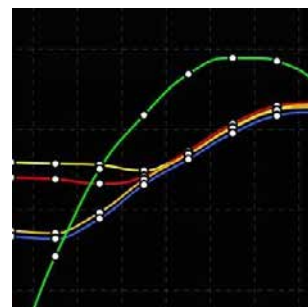
containing an already preprogrammed KNX quick project
example, latest software version, contains KNX Secure

- including Symcon basic software licence (250 data points)
- integrated KNX interface for direct TP connection
- including adequate power supply

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
SYMBOL-SEC  4 260049 689635	starter package Symbox includes: Symbox (DHCP) with integrated KNX interface (4 RU), basic software licence (250 data points) incl. KNX Secure, adequate power supply (1 RU)	4 +1	87361 SEC	691,00	9



Symcon can be used with
KNX quick
as well as
KNX eco+ and KNX standard



For further information and support
please contact Symcon directly:


Symcon GmbH
Willy-Brandt-Allee 31b
D-23554 Lübeck
www.symcon.de
office@symcon.de

6 New Products



KNX Secure 1-10V interface 4 fold



- FDSK on frontplate for easy read access
- 4 channels for 4 independent load circuits
- manual operation for each channel
- switching capacity per channel: 16A 250VAC, suitable for C load up to 140µF
- 1-10V control output per channel: max. 20 loads

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
DIM4F110H-SEC  4 260049 689925	KNX Secure 1-10V interface 4fold, manual operation	4	77611 SEC	145,00	1

KNX Secure flush mount push button 4+4fold, 4 binary inputs / outputs



- Exclusiv 55 series, rocker dimensions 55x55mm
- suitable for frames of various manufacturers
- complete set with flush mount KNX bus coupling unit
- 4 integrated inputs for dry contacts
- 4 integrated outputs for LEDs
- suitable cable sets 87183 - 87185
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- integrated temperature and humidity sensor possible.
- rockers and cover frames have to be ordered separately
- for suitable cover frames see 8.1
- ETS application: ta8fxt-E-Q-en-de-21.knxprod

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
TA4F55-BCU-SEC  4 260049 689802	flush mount push button 4+4fold 55x55mm, 4 binary inputs / outputs, including KNX Secure bus coupling unit, without rockers, without cover frames, without cable sets	-	87860 SEC	49,00	2
TA4F55TH-BCU-SEC  4 260049 689796	flush mount push button 4+4fold 55x55mm, 4 binary inputs / outputs, integrated temperature and humidity sensor, including KNX Secure bus coupling unit, without rockers, without cover frames, without cable sets	-	87861 SEC	59,00	2