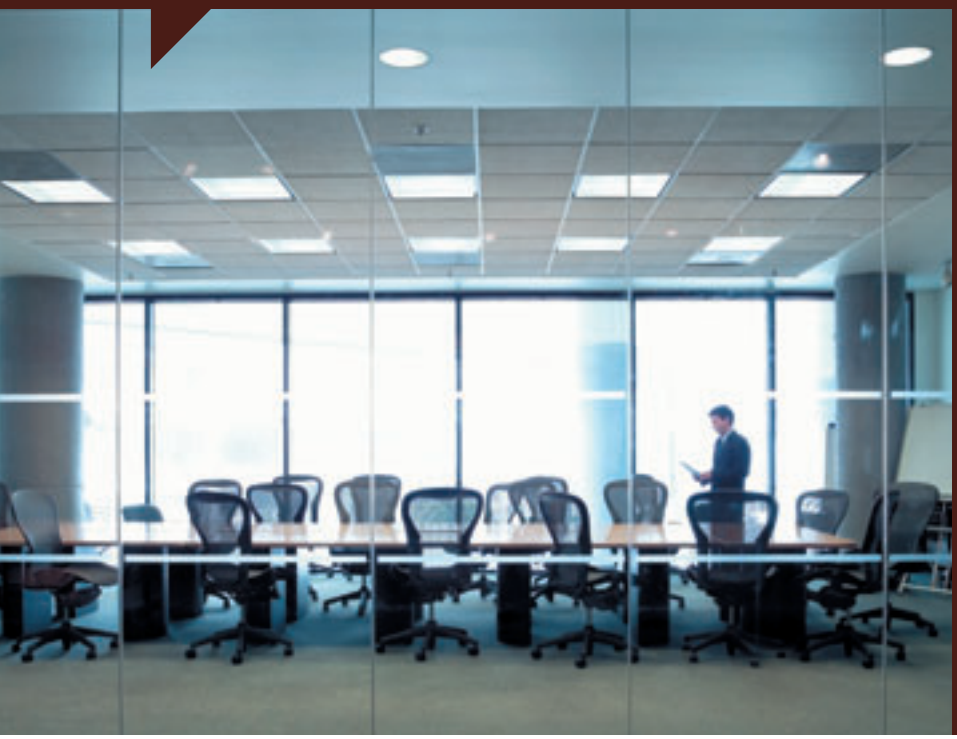
KNX
THE SOLUTION FOR INTELLIGENT BUILDINGS



When leaving the house, do you want to check at the touch of a button that no lights or electrical appliances are still switched on? Or maybe in the evening you would like to lower the blinds with a single push of a button to create a pleasant ambiance with atmospheric lighting?
Just a few of the many possibilities offered by intelligent building system technology from Merten KNX. In conventional buildings, this would only be possible with a great deal of effort. Now, all it takes is a flick of the wrist.

All a bit too theoretical? Why not convince your customers with practical sample applications from the Merten CD. It can be ordered free of charge from Merten or online at www.mymerten.com

ARTEC multi-function push-button

The new ARTEC multi-function push-button with room temperature control unit is available as a 2-gang and 4-gang push-button. Its new design sets standards: The large, white-illuminated display, the blue status and operation LEDs, the elegant shape of the push-buttons, the generous labelling field and the high-quality materials make it an eye-catching sight in any room. Thanks to an infrared receiver, the 4-gang push-button can also be controlled by remote control for total convenience.

CONTENTS

ARTEC

TRANCENT

IP Touch-Panel 10"

The current product database can be obtained by calling the following telephone number or from the Internet at http://www.merten.com

- E-mail: info@merten.de
- Tel.: 02261 702-286
- Fax: 02261 702- 633
- **Technical information / Infoline**
- E-mail: infoline@merten.de
- Tel.: 0800 63783640
- Fax: 0800 63783630

Technical Information: KNX system features (⇒ p. 518)

System components

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

Power supply 160 REG-K

For generating the bus voltage for a line with up to 32 bus devices. With integrated choke to decouple the power supply from the bus and a switch to disconnect the power and reset the bus devices connected to the line.
Can be connected to the mains with plug-in screw terminals. For mounting on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary.

Mains voltage: AC 230 V, 50-60 Hz
Output voltage: DC 29 V ± 1 V
Output current: max. 160 mA, short-circuit-proof
Device width: 5 modules = approx. 90 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**683329**	1/21	9.3	

Power supply 320 REG-K

For generating the bus voltage for a line with up to 64 bus devices. With integrated choke to decouple the power supply from the bus and a switch to disconnect the power and reset the bus devices connected to the line.
Can be connected to the mains with plug-in screw terminals. For mounting on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary.

Mains voltage: AC 230 V, 50-60 Hz
Output voltage: DC 29 V ± 1 V
Output current: max. 320 mA, short-circuit-proof
Device width: 5 modules = approx. 90 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**683429**	1/21	9.3	

Power supply 320 REG-K with battery connection

For generating the bus voltage for a line with up to 64 bus devices. With integrated choke to decouple the power supply from the bus and a switch to disconnect the power and reset the bus devices connected to the line.
Can be connected to the mains with plug-in screw terminals. For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. External lead gel batteries with a DC 12 V (SELV) voltage can be connected to the emergency power input for buffering the bus voltage or IC 1 Internet controller power supply. The integral buffer circuit ensures that the 6-15 Ah lead gel batteries are used as buffers or recharged.

Mains voltage: AC 230 V, 50-60 Hz
Emergency input: for lead gel battery 6-15 Ah with DC 12 V (SELV)
Charge retention current: max. 250 mA
Output voltage: DC 29 V ±1 V
Output current: max. 320 mA, short-circuit-proof
Device width: 5 modules = approx. 90 mm

Accessories: Lead gel battery, art. no. 668990.
Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**683129**	1/21	9.3	

Lead gel battery

Lead gel battery to connect to the emergency input of the power supply 320 REG-K with battery connection.
Also for powering the outdoor siren with flashlight, TeleConnect or IC 1 Internet controller.

Nominal voltage: DC 12 V
Capacity: 7.2 Ah

In KNX, to be completed with: Power supply 320 REG-K with battery connection, art. no. 683129.

Version	Art. no.	PU	PG	Info
7.2 Ah	**668990**	1/2	8.2	

Power supply 2x320 REG-K

For the generation of bus voltages for two lines, each with a maximum of 64 bus devices. With two integrated chokes to decouple the power supply from the bus, as well as switches to disconnect the power and to reset the bus devices connected to the respective line.
Can be connected to the mains with plug-in screw terminals. For mounting on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary.

Mains voltage: AC 230 V, 50-60 Hz
Output voltage: 2xDC 29 V ± 1 V
Output current: max. 2x320 mA, short-circuit-proof
Device width: 7 modules = approx. 126 mm

Contents: With 2 bus connecting terminals and 2 cable covers.

Version	Art. no.	PU	PG	Info
light grey	**683729**	1/16	9.3	

Power supply 640 REG-K

For generating bus voltage for a maximum of two lines, each with 64 bus devices. With integrated choke to decouple the power supply from the bus and a switch to disconnect the power and reset the bus devices connected to the line. A further line can be provided with its own choke via a separate DC 29 V power supply.
For mounting on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary.

Mains voltage: AC 230 V, 50-60 Hz
Output voltage: DC 29 V ± 1 V
Output current: max. 640 mA, short-circuit-proof
Device width: 7 modules = approx. 126 mm

Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
light grey	**683829**	1/16	9.3	

Power supply REG-K/640 mA

For generating the bus voltage for a line with up to 64 bus devices. With integrated choke to decouple the power supply from the bus and a switch to disconnect the power and reset the bus devices connected to the line. The emergency power supply REG can be connected in order to buffer the bus voltage.
For mounting on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary.

Mains voltage: AC 110 - 230 V, 50-60 Hz
Output voltage: DC 30 V ±2 V
Output current: max. 640 mA, short-circuit-proof
Device width: 4 TE = approx. 72 mm

Accessories: REG emergency power supply, art. no. 683901.
Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**683890**	1/10	9.3	

REG-K emergency power supply

To buffer the bus voltage. If a complete mains failure occurs, an external lead gel battery with a voltage of DC 12 V (SELV) can be connected to the REG power supply for buffering. The lead gel battery is recharged or maintained in its charged state by integrated charging electronics.
A binary input can be connected in order to register the operational status.
For installation on DIN rails EN 50022. A data rail is not necessary.

Mains voltage: AC 110 - 230 V, 50-60 Hz
Output to power supply:
Output voltage: DC 30 V ±2 V
Output current:
without battery with mains supply max. 300 mA, with battery without mains supply max. 640 mA
Short-circuit current: < 1.5 A

Charging current: max. 1 A
Connections: plug-in screw terminal for main connector, operating state (4-pin, 3 floating contacts) and emergency power supply. Plug-in terminal for battery connection (two 1 mm pins)
Device width: 4 TE = approx. 72 mm

In KNX, to be completed with: Power supply REG-K/640 mA, art. no. 683890
Accessories: Lead gel battery, art. no. 668990.
Contents: With connecting terminal and cable cover
Availability: Available June 2007.

Version	Art. no.	PU	PG	Info
light grey	**683901**	1/10	9.3	

Lead gel battery

Lead gel battery for connecting to the emergency power supply REG.

Nominal voltage: DC 12 V
Capacity: 18 Ah

In KNX, to be completed with: REG emergency power supply, art. no. 683901.

Version	Art. no.	PU	PG	Info
	668991	1/1	8.2	

Choke REG

To decouple the second line of the power supply 640 REG-K from the bus. With a switch to disconnect the power and reset the bus devices connected to the line.
For mounting on DIN rails EN 50022-35 x 7.5, with integrated data rail.

Mains voltage: DC 30 V
Nominal current: 0.5 A
Device width: 2 modules = approx. 36 mm

In KNX, to be completed with: Data rail, art. no. 6899 ..

Version	Art. no.	PU	PG	Info
light grey	**680401**	1/70	9.3	

Bus coupler, flush-mounted

For connecting flush-mounted application modules with plug-in application interface.
For screw mounting in the size 60 installation box.
Flat design. With LED and push-button for programming.

Mounting depth: 20 mm

In KNX, to be completed with: Flush-mounted application modules with plug-in application interface.
Accessories: Protective cover for plaster, art. no. 690098.
Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
	690099	1/50	9	

Bus coupler 2, flush-mounted

For the connection of flush-mounted application modules with plug-in application interface (e.g. for multi-function push-button or serial data interface 2, flush-mounted).
For screw mounting in the size 60 installation box.
Flat design. With LED and push-button for programming.

Mounting depth: 20 mm

In KNX, to be completed with: Flush-mounted application modules with plug-in application interface.
Accessories: Protective cover for plaster, art. no. 690098.
Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
	690299	1/50	9	

Coupler REG-K

For logical connection and electrical isolation of lines and areas. For mounting on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. Contact established with the primary and secondary line via bus connecting terminal.

Device width: 2 modules = approx. 36 mm

Contents: With 2 bus connecting terminals.

Version	Art. no.	PU	PG	Info
light grey	**680204**	1/35	9.3	

KNX/IP router REG-K

The KNX/IP router enables telegrams to be forwarded between different lines via LAN (IP) as a rapid backbone. The device can additionally serve as a programming interface in order to connect a PC with the KNX bus (e.g. for ETS programming with suitable ETS).
The IP address can be assigned dynamically via a DHCP server or via manual configuration (ETS parameter). The device operates in accordance with the KNXnet/IP specification using Core, device management, tunnelling and routing.
The KNX/IP router forwards telegrams in both directions whilst taking a filter table into account and can buffer up to 150 telegrams.
For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary.

Supply voltage: DC 12-30 V (at DC 24 V 40 mA), AC 12-24 V
Device width: 2 TE = approx. 36 mm

In KNX, to be completed with: Power supply REG, DC 24 V/0.4 A, art. no. 693003. Also alternatively Power over Ethernet (PoE).
Contents: With bus connecting terminal.
Availability: Available April 2007.

Version	Art. no.	PU	PG	Info
light grey	**680329**	1/70	9.3	

Data rail connector REG/2

For connecting up to eight bus lines to the data rail using bus connecting terminals. For mounting on DIN rails EN 50022-35 x 7.5, with integrated data rail.

Device width: 1 module = approx. 18 mm

In KNX, to be completed with: Data rail, art. no. 6899 ..
Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
light grey	**680603**	2/140	9.3	

Data rail connector REG/4

For connecting up to eight bus lines and power supplies to the data rail via bus connecting terminals. For mounting on DIN rails EN 50022-35 x 7.5, with integrated data rail.

Device width: 1 module = approx. 18 mm

In KNX, to be completed with: Data rail, art. no. 6899 ..
Contents: With 2 bus connecting terminals.

Version	Art. no.	PU	PG	Info
light grey	**680602**	2/140	9.3	

Adapter with data rail REG-K

For connecting up to eight bus lines to the data rail using bus connecting terminals. For mounting on DIN rails EN 50022-35 x 7.5, with integrated data rail.

Device width: 7 modules = approx. 126 mm

Version	Art. no.	PU	PG	Info
light grey	**680604**	1/48	9.3	

Data rail

For connecting KNX devices installed in series in distribution panels on DIN rail. For bonding (self-adhesive) into the DIN rail EN 50022-35 x 7.5.

Accessories: Data rail cover, art. no. 689801.

Version	Art. no.	PU	PG	Info
214 mm	**689901**	5/500	9	
243 mm	**689902**	5/500	9	
277 mm	**689903**	5/500	9	

Data rail cover

For covering unused data rail connectors by snapping onto the DIN rail EN 50022 35x7.5.

Length: 242 mm

In KNX, to be completed with: Data rail, art. no. 6899 ..

Version	Art. no.	PU	PG	Info
light grey	**689801**	5/50	9	

Bus connecting terminal

For connecting max. 4 core pairs to an INSTABUS EIB REG-K, flush-mounted, surface-mounted or built-in device, can also be used as a branch terminal.
Consists of two interlocked terminal parts in red ("+") and dark grey ("-"), each with 4 plug-in terminals. For solid conductors with a diameter of 0.6 to 0.8 mm.

Version	Art. no.	PU	PG	Info
red/dark grey	**689701**	50/2500	9	

Branch terminal, yellow/white

Branch terminal comprising two interlocking terminal parts in yellow and white, each with 4 plug-in terminals. For solid conductors with a diameter of 0.6 to 0.8 mm.
For wiring the yellow/white cores of the bus cable.

Version	Art. no.	PU	PG	Info
yellow/white	**689702**	50/2500	9	

Cable cover for REG-K

For covering the stripped bus cable in all REG-K devices. The cable cover guarantees a safe distance between the SELV bus voltage and the mains voltage.

Version	Art. no.	PU	PG	Info
light grey	**662929**	5/500	9	

Protective cover for plaster

For protecting the bus coupler, flush-mounted actuators, Easy flush-mounted modules or actuators from damage during painting and decorating work.

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099. Bus coupler, flush-mounted 2, art. no. 690299. Switch actuator, flush-mounted, art. no. 627099. Series actuator, flush-mounted, art. no. 627199. Blind actuator, flush-mounted, art. no. 627299.

Version	Art. no.	PU	PG	Info
black	**690098**	10/300	9	

Blanking cover

For System M.
Screw-on cover for flush-mounted bus coupler or flush-mounted actuators.

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099. Bus coupler, flush-mounted 2, art. no. 690299. Switch actuator, flush-mounted, art. no. 627099. Series actuator, flush-mounted, art. no. 627199. Blind actuator, flush-mounted, art. no. 627299. INSTABUS radio gateway, flush-mounted, art. no. 680999.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**662344**	1/100	9	
polar white, glossy	**662319**	1/100	9	
active white, glossy	**662325**	1/100	9	
Thermoplastic classy matt				
white	**662144**	1/100	9	
polar white	**662119**	1/100	9	
anthracite	**662114**	1/100	9	
aluminium	**662160**	1/100	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Blanking cover

For System Design.
Screw-on cover for flush-mounted bus coupler or flush-mounted actuators.

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099. Bus coupler, flush-mounted 2, art. no. 690299. Switch actuator, flush-mounted, art. no. 627099. Series actuator, flush-mounted, art. no. 627199. Blind actuator, flush-mounted, art. no. 627299. INSTABUS radio gateway, flush-mounted, art. no. 680999.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**662244**	1/100	9	
polar white	**662219**	1/100	9	
vanilla	**662282**	1/100	9	
ice blue	**662288**	1/100	9	
light grey	**662229**	1/100	9	
midnight blue	**662278**	1/100	9	
dark brazil	**662215**	1/100	9	
black grey	**662269**	1/100	9	
aluminium	**662260**	1/100	9	
metallic				
varnished stainless steel	**662246**	1/100	9	

Bus coupler REG

Can be programmed as a logic, control or light-scene module, for example.
For connecting DIN rail mounted application modules with application interface (REG-S) plugged in at the side.
For mounting on DIN rails EN 50022-35 x 7.5, with integrated data rail. With LED and push-button for programming.

KNX software functions:

Lighting control

Lighting controls are used to control switching and dimming telegrams selectively, e.g. to toggle between single room and total room control for conference rooms with partition walls. When an incoming telegram is received, up to twelve different output telegrams can be sent. Four output channels can be activated individually or all together.

Lightscenes

Light settings can be activated automatically or at the push of a button. Up to eight lightscenes for four different actuators or actuator groups can be saved in a single bus coupler. The number of lightscenes and actuators can be infinitely increased with additional bus couplers. Lightscenes are activated by switching telegrams, such as those sent by standard INSTABUS push-buttons and binary inputs for example.

Logic operations

Different logic operation functions can be selected in three program applications. These functions contain up to three logic gates and eight inputs. All three applications support the logic operations AND, OR, NAND and NOR. One also supports the exclusive OR and equivalence functions. The telegrams can be individually parameterised on the input and output side.

Filter

Incoming ON/OFF telegrams are selected, processed and then issued again depending on the setting in the Filter/Time application. The telegrams can be sent on two output channels with a time delay. Both outputs can be locked using a blocking function. In such a way it is possible for example to block automatic, brightness-dependent blind control if necessary.

Device width: 1 module = approx. 18 mm

In KNX, to be completed with: Data rail, art. no. 6899 ..

Version	Art. no.	PU	PG	Info
light grey	**690599**	1/70	9.3	

Mini-function module REG

Open and closed-loop control tasks are possible using the INSTABUS EIB thanks to the mini-function module REG. The received bus telegrams are interpreted and processed according to the freely programmable logic or mathematical functions. The results are sent to the actuators as telegrams via the bus (no floating point format).
The device is programmed using INSTABUS EIB (no integrated RS 232 interface). Projects may comprise 150 function blocks and 200 group addresses. Mini-function module projects can also be processed by the function module REG.
A real-time operating system performs control and management of the functional elements, which are programmed in a graphical language. The integrated real-time clock permits precise time-based control sequences. A library of functional elements permits creation of programs appropriate to the needs of any application, e.g. for complex heating, lighting and blind control.
The mini-function module tool software permits the selection of approx. 40 functional elements with diverse standardised EIB data telegrams from the function library, for combination in application programs. The programs are then loaded into the device and executed.

Power: A 29 V DC power supply is required via the two outer conductors of the data rail and a data rail connector REG/4.
Power consumption: Normal operation approx. 40 mA
Programming mode approx. 100 mA
Device width: 3 modules = approx. 54 mm

In KNX, to be completed with: Mini-function module tool software, art. no. 615011. Data rail, art. no. 6899.., data rail connector REG/4, art. no. 680602.

Note: The software, art. no. 615011, (Windows 98 or higher) for programming the mini-function module is available on the Internet or on the Merten info CD. The program FM Loader 32 is available over the Internet for operating systems Windows NT, 2000 and XP.

Version	Art. no.	PU	PG	Info
light grey	**676099**	1/30	9.3	

Function module REG

Extensive open and closed-loop control tasks are possible using the INSTABUS EIB thanks to the function module REG. The sensors and actuators can be connected to the bus locally and cost-effectively. The received bus telegrams are interpreted and processed according to the freely programmable logic or mathematic functions.
The results are sent to the actuators as telegrams via the bus.
A real-time multi-tasking operating system performs control and management of the functional elements, which are freely programmed in a graphical language. The integrated real-time clock permits precise time-based control sequences. A library of functional elements permits creation of programs appropriate to the needs of any application, e.g. for complex heating, lighting and blind control.
The function module tool software allows more than 50 functional elements, supporting a variety of standardised EIB data telegrams, to be selected from the function library and assembled into application programs. The programs are then loaded into the device and executed.

Power: A 29 V DC power supply is required via the two outer conductors of the data rail and a data rail connector REG/4.
Power consumption: Normal operation approx. 40 mA
Programming mode approx. 100 mA
Device width: 3 modules = approx. 54 mm

In KNX, to be completed with: Function module tool software, art. no. 615014. Data rail, art. no. 6899.., data rail connector REG/4, art. no. 680602.

Version	Art. no.	PU	PG	Info
light grey	**676029**	1/30	9.3	

Function module tool software

The function module tool software is used to configure the application programs of the function module REG.
An easy-to-use graphic editor that runs under Windows makes it possible to program the function module on a conventional PC, which can also be used for the ETS program. The program created with the graphic editor is loaded into the function module via the computer's RS 232 interface after compilation (translation into the language of the function module).
The function module and additional program FM Loader 32 can be programmed under Windows NT, 2000 and XP operating systems, and also via the bus.

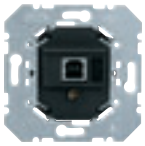
The function module tool software consists of:
Graphic editor: Function block library with over 50 function elements, task images and compilers to create programs.
Loader: For loading the programs into the function module.
Documenter: For creating and printing out the documentation.
PC requirements: min. 486 processor with min. 1 MB available space on the hard drive and a free serial interface.

In KNX, to be completed with: Function module REG, art. no. 676029.
Note: The program FM Loader 32 is available over the Internet for operating systems Windows NT, 2000 and XP.
Contents: Program diskettes with manual and copy-protected plug (dongle).

Version	Art. no.	PU	PG	Info
	615014	1/1	9.1	

Interfaces/gateways

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.



USB interface, flush-mounted

For connecting a programming or diagnostics device with a USB1.1 or USB2 interface to the INSTABUS EIB.
For screw mounting in the size 60 installation box. With integrated bus coupler. The device is connected to the bus with a bus connecting terminal. Compatible with ETS 3.

Mounting depth: 20 mm

To be completed with: Central plate for telephone socket-outlet TAE, art. no. System M 2960.., 2979.., System Design 2978...
Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
	681799	1/30	9	

Central plate for telephone socket-outlet TAE

For System M.
For telephone socket-outlets TAE or TDO, combination socket-outlets RJ45/TAE or flush-mounted USB interface.

To be completed with: Telephone socket-outlet TAE, art. no. 4652...Loudspeaker connection insert art. no. 4670...USB interface, flush-mounted, art. no. 681799.Telephone socket-outlet TDO, art. no. 465930.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**296044**	5/150	1	
polar white, glossy	**296019**	5/150	1	
active white, glossy	**296025**	5/150	1	
Thermoplastic classy matt				
white	**297944**	5/150	1	
polar white	**297919**	5/150	1	
anthracite	**297914**	5/150	1.1	
aluminium	**297960**	5/150	1.1	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Central plate for telephone socket-outlet TAE

For System Design.
For telephone socket-outlets TAE or TDO, combination socket-outlets RJ45/TAE or flush-mounted USB interface.

To be completed with: Telephone socket-outlet TAE, art. no. 4652...Loudspeaker connection insert art. no. 4670...USB interface, flush-mounted, art. no. 681799.Telephone socket-outlet TDO, art. no. 465930.
Accessories: Labelling strips for switches, socket-outlets, art. no. 395019

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**297844**	1/150	1	
polar white	**297819**	1/150	1	
vanilla	**297882**	1/150	1.2	
ice blue	**297888**	1/150	1.2	
light grey	**297829**	1/150	1.2	
midnight blue	**297878**	1/150	1.2	
dark brazil	**297815**	1/150	1.2	
black grey	**297869**	1/150	1.2	
aluminium	**297860**	1/150	1.2	
metallic				
antique brass	**297843**	1/150	1.4	
stainless steel	**297846**	1/150	1.2	

USB interface REG-K

For connecting a programming or diagnostics device with a USB1.1 or USB2 interface to the INSTABUS EIB. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. With integrated bus coupler.

Device width: 2 modules = approx. 36 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**681829**	1/35	9.3	

Serial data interface, flush-mounted

Application module for System M.
To connect a programming or diagnostics device with an RS 232 interface to the KNX.
With operating display and 9-pin D-SUB socket connector.

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**686044**	1/50	9	
polar white, glossy	**686019**	1/50	9	
active white, glossy	**686025**	1/50	9	
Thermoplastic classy matt				
white	**681144**	1/50	9	
polar white	**681119**	1/50	9	
anthracite	**681114**	1/50	9	
aluminium	**681160**	1/50	9	

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Serial data interface 2, flush-mounted

Application module for System M.
To connect a programming or diagnostics device with an RS 232 interface to the KNX. For communication with the FT 1.2 protocol.
With operating display and 9-pin D-SUB socket connector.

In KNX, to be completed with: Bus coupler, flush-mounted 2, art. no. 690299.
Note: When using the data interface for programming, use the ETS 3 with the FT 1.2 protocol.

Version	Art. no.	PU	PG	Info
Thermoplastic classy matt				
polar white	**681219**	1/50	9	
anthracite	**681214**	1/50	9	
aluminium	**681260**	1/50	9	

Serial data interface, flush-mounted

Application module for System Design.
To connect a programming or diagnostics device with an RS 232 interface to the KNX.
With operating display and 9-pin D-SUB socket connector.

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**681344**	1/50	9	
polar white	**681319**	1/50	9	
vanilla	**681382**	1/50	9	
ice blue	**681388**	1/50	9	
light grey	**681329**	1/50	9	
midnight blue	**681378**	1/50	9	
dark brazil	**681315**	1/50	9	
black grey	**681369**	1/50	9	
aluminium	**681360**	1/50	9	
metallic				
varnished stainless steel	**681346**	1/50	9	

Serial data interface 2, flush-mounted

Application module for System Design.
To connect a programming or diagnostics device with an RS 232 interface to the KNX. For communication with the FT 1.2 protocol.
With operating display and 9-pin D-SUB socket connector.

In KNX, to be completed with: Bus coupler, flush-mounted 2, art. no. 690299.
Note: When using the data interface for programming, use the ETS 3 with the FT 1.2 protocol.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**681444**	1/50	9	
polar white	**681419**	1/50	9	
vanilla	**681482**	1/50	9	
ice blue	**681488**	1/50	9	
light grey	**681429**	1/50	9	
midnight blue	**681478**	1/50	9	
dark brazil	**681415**	1/50	9	
black grey	**681469**	1/50	9	
aluminium	**681460**	1/50	9	
metallic				
varnished stainless steel	**681446**	1/50	9	

Serial data interface REG-K

For connecting a programming or diagnostics device with an RS 232 interface to the INSTABUS. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. Data traffic via the RS 232 interface is indicated by a yellow LED. The green operating LED indicates that the interface is ready for operation.
With 9-pin D-SUB socket connector and integrated bus coupler.

Device width: 2 modules = approx. 36 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**681929**	1/70	9.3	

TeleConnect

TeleConnect can be used to connect the telephone network to conventional inputs/outputs and KNX systems. With integrated bus coupler.
Four conventional loads and six KNX functions can be controlled via a standard DTMF telephone or a DTMF hand-held transmitter. The status of the loads and device functions can be determined through speech output. The corresponding texts can be changed with the handset. The device states are indicated on the LCD in addition to the speech output. A four-digit code number prevents unauthorised access. An alarm function can also be programmed. The alarm function can be activated via 4 conventional alarm inputs and 2 KNX telegrams. In the event of an alarm, up to three telephone numbers can be dialled.

Mains voltage: AC 230 V + 10 %/- 15 %, 50 Hz (via plug-in power supply unit)
Outputs: 4 x DC 24 V
Dimensions: 220 x 180 x 40 mm (L x W x H)

Accessories: Handset, art. no. 660790.
Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
polar white	**680732**	1/4	9	

Handset for TeleConnect

Speech output of the various messages can be monitored and changed with the handset.

In KNX, to be completed with: TeleConnect, art. no. 680732. TeleConnect REG-S, art. no. 680729.

Version	Art. no.	PU	PG	Info
anthracite	**660790**	1/8	9.1	

Push-buttons

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

Control electronics, 1- to 4-gang

For the TRANCENT range.
The control electronics can be programmed as a 1-, 2- or 4-gang sensor cover.
With orientation LED. Operation of the glass cover is acknowledged with a short tone.

KNX software functions:
The covers facing each other can either be parameterised as a pair (dual-surface) or as individual buttons (single-surface). There are a total of 12 parameterisation options available.
Single-surface: dimming, toggling, pulse edges, temperature, scenes.
Dual-surface: blind control, switching, dimming, toggling, pulse edges, temperature, scene.

In KNX, to be completed with: Bus coupler, flush-mounted 2, art. no. 690299. TRANCENT glass sensor cover, art. no. 5691.., 5692.., 5693.., 5695...
Accessories: Cover foil for glass sensor cover, art. no. 569190, 569290, 569390.

Version	Art. no.	PU	PG	Info
1- to 4-gang	**623190**	1/100	9	

Push-button, 1-gang plus

For System M.
With integrated bus coupling unit.
Push-button with 2 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.
The device is connected to the bus line with a bus connecting terminal.

KNX software functions:
Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.

Accessories: Labelling sheets for push-buttons, art. no. 618319/20.
Contents: With protective hood for plaster. With bus connecting terminal.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**617144**	1/60	9	
polar white, glossy	**617119**	1/60	9	
active white, glossy	**617125**	1/60	9	
Thermoplastic classy matt				
white	**627544**	1/60	9	
polar white	**627519**	1/60	9	
anthracite	**627514**	1/60	9	
aluminium	**627560**	1/60	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Push-button, 2-gang plus

For System M.
With integrated bus coupling unit.
Push-button with four operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.
The device is connected to the bus line with a bus connecting terminal.

KNX software functions:
Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.

Accessories: Labelling sheets for push-buttons, art. no. 618319/20.
Contents: With protective hood for plaster. With bus connecting terminal.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**617244**	1/60	9	
polar white, glossy	**617219**	1/60	9	
active white, glossy	**617225**	1/60	9	
Thermoplastic classy matt				
white	**627644**	1/60	9	
polar white	**627619**	1/60	9	
anthracite	**627614**	1/60	9	
aluminium	**627660**	1/60	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Push-button, 4-gang plus

For System M.
With integrated bus coupling unit.
Push-button with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.
The device is connected to the bus line with a bus connecting terminal.

KNX software functions:
Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.

Accessories: Labelling sheets for push-buttons, art. no. 618319/20.
Contents: With protective hood for plaster. With bus connecting terminal.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**617444**	1/60	9	
polar white, glossy	**617419**	1/60	9	
active white, glossy	**617425**	1/60	9	
Thermoplastic classy matt				
white	**627844**	1/60	9	
polar white	**627819**	1/60	9	
anthracite	**627814**	1/60	9	
aluminium	**627860**	1/60	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Push-button, 4-gang plus with IR receiver

For System M.
With integrated bus coupling unit.
Push-button with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.
The functions of each of the keys can be triggered using an IR remote control.
The push-button is pre-programmed for operation with a Merten IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.
The device is connected to the bus line with a bus connecting terminal.

KNX software functions:
Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.

Accessories: Labelling sheets for multi-function push-button with IR receiver, art. no. 618419/20.
Transmitter: IR remote control Distance, art. no. 570222.
Contents: With protective hood for plaster. With bus connecting terminal.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**617544**	1/60	9	
polar white, glossy	**617519**	1/60	9	
active white, glossy	**617525**	1/60	9	
Thermoplastic classy matt				
white	**627944**	1/60	9	
polar white	**627919**	1/60	9	
anthracite	**627914**	1/60	9	
aluminium	**627960**	1/60	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Push-button, 1-gang

Application module for System M.
Push-button with 2 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.

KNX software functions:
The push-buttons can be parameterised with different applications either as a pair (dual-surface) or individually (single-surface).
Single-surface: switching, pulse edge.
Dual-surface: switching, dimming, blind control, pulse edge.
In combination with flush-mounted actuator, additionally: send value, send temperature values, disable buttons.

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.
Accessories: Labelling sheets for push-buttons, art. no. 618319/20. Protective hood for plaster, System M, art. no. 627591...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**620844**	1/100	9	
polar white, glossy	**620819**	1/100	9	
active white, glossy	**620825**	1/100	9	
Thermoplastic classy matt				
white	**623344**	1/100	9	
polar white	**623319**	1/100	9	
anthracite	**623314**	1/100	9	
aluminium	**623360**	1/100	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Push-button, 2-gang

Application module for System M.
Push-button with 4 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.

KNX software functions:
The push-buttons can be parameterised with different applications either as a pair (dual-surface) or individually (single-surface).
Single-surface: switching, pulse edge.
Dual-surface: switching, dimming, blind control, pulse edge.
In combination with flush-mounted actuator, additionally: send value, send temperature values, disable buttons.

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.
Accessories: Labelling sheets for push-buttons, art. no. 618319/20. Protective hood for plaster, System M, art. no. 627591...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**620944**	1/100	9	
polar white, glossy	**620919**	1/100	9	
active white, glossy	**620925**	1/100	9	
Thermoplastic classy matt				
white	**623444**	1/100	9	
polar white	**623419**	1/100	9	
anthracite	**623414**	1/100	9	
aluminium	**623460**	1/100	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Push-button, 4-gang

Application module for System M.
Push-button with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.

KNX software functions:
The push-buttons can be parameterised with different applications either as a pair (dual-surface) or individually (single-surface).
Single-surface: pulse edge.
Dual-surface: switching, dimming, blind control.
In combination with flush-mounted actuator, additionally: send value, send temperature values, disable buttons. Free functional selection.

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.
Accessories: Labelling sheets for push-buttons, art. no. 618319/20. Protective hood for plaster, System M, art. no. 627591...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**621044**	1/100	9	
polar white, glossy	**621019**	1/100	9	
active white, glossy	**621025**	1/100	9	
Thermoplastic classy matt				
white	**623844**	1/100	9	
polar white	**623819**	1/100	9	
anthracite	**623814**	1/100	9	
aluminium	**623860**	1/100	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Multi-function push-button, 4-gang

Application module for System M.
Push-button with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.

KNX software functions:
The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surface).
Single-surface: switching, dimming, pulse edge, send value, scenes.
Dual-surface: switching, dimming, blind control, send value.

In KNX, to be completed with: Bus coupler, flush-mounted 2, art. no. 690299, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.
Accessories: Labelling sheets for push-buttons, art. no. 618319/20. Protective hood for plaster, System M, art. no. 627591...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**629144**	1/100	9	
polar white, glossy	**629119**	1/100	9	
active white, glossy	**629125**	1/100	9	
Thermoplastic classy matt				
white	**624144**	1/100	9	
polar white	**624119**	1/100	9	
anthracite	**624114**	1/100	9	
aluminium	**624160**	1/100	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Multi-function push-button, 4-gang with IR receiver

Application module for System M.
Push-button with 8 operating buttons, 8 status displays, labelling field and IR receiver.
All functions of the respective buttons can be controlled via IR remote control Distance.
The operating display can also be used as an orientation light.

KNX software functions:
The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surface).
Single-surface: switching, dimming, pulse edge, send value, scenes.
Dual-surface: switching, dimming, blind control, send value.

In KNX, to be completed with: Bus coupler, flush-mounted 2, art. no. 690299, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.
Accessories: Labelling sheets for multi-function push-button with IR receiver, art. no. 618419/20. Protective hood for plaster, System M, art. no. 627591...
Transmitter: IR remote control Distance, art. no. 570222.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**629244**	1/100	9	
polar white, glossy	**629219**	1/100	9	
active white, glossy	**629225**	1/100	9	
Thermoplastic classy matt				
white	**624244**	1/100	9	
polar white	**624219**	1/100	9	
anthracite	**624214**	1/100	9	
aluminium	**624260**	1/100	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Labelling sheets for push-buttons

For individual labelling of the System M push-buttons with text or symbols.

To be completed with: System M push-button, 1-gang, 2-gang or 4-gang, art. no. 6171.., 6275.., 6208.., 6233.., 6172.., 6276.., 6209.., 6234.., 6174.., 6278.., 6210.., 6238.., 6291.., 6241...
Accessories: Labelling software, art. no. 615022.
Contents: 1 sheet for every 28 products.

Version	Art. no.	PU	PG	Info
polar white	**618319**	1/100	9	
silver	**618320**	1/100	9	

Labelling sheets for multi-function push-button with IR receiver

For individual labelling of the System M multi-function push-button with IR receiver.

To be completed with: System M multi-function push-button with IR receiver, art. no. 6175.., 6279.., 6292.., 6242...
Accessories: Labelling software, art. no. 615022.
Contents: 1 sheet for every 28 products.

Version	Art. no.	PU	PG	Info
polar white	**618419**	1/100	9	
silver	**618420**	1/100	9	

Protective hood for plaster

For System M.
To protect push-buttons, rockers, room temperature control units and room controllers from contamination from painting and decorating work.

Accessories from: Push-button in System M design, art. no. 6208.., 6209.., 6210.., 6233.., 6234.., 6238... Multi-function push-button in System M design, art. no. 6232.., 6241.., 6242.., 6273.., 6291.., 6292... Rockers for push-button modules in System M design, art. no. 6191.., 6192.., 6193.., 6194.., 6195.., 6196.., 6197.., 6251.., 6252.., 6254.., 6255.., 6256.., 6257.., 6258... Room temperature control unit, flush-mounted/PI, in System M design, art. no. 6247.., 6259...
Note: When the protective hood for plaster is in place, the temperature measurement of the room temperature control unit is restricted.

Version	Art. no.	PU	PG	Info
	627591	10/160	9	

Multi-function push-button, 2-gang with room temperature control unit

Application module for System M.
Convenient control unit with 4 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.
With room temperature control unit and display. The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day, display mode, time, switching times and brightness.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

KNX software functions:
Functions of the multi-function push-button:
Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, alarm functions, .the cyclic reading of external temperature values, fan control.
Functions of the room temperature control unit:
Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
Output: Continuous in the range 0..100% or switching ON/OFF
Controller mode:
- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs

Operating modes: comfort, comfort extension, standby, night economy, frost/heat protection
Operation: Menu

In KNX, to be completed with: Flush-mounted module for multi-function push-button with room temperature control unit, art. no. 623299.
Accessories: Labelling software, art. no. 615022. Protective hood for plaster, System M, art. no. 627591... Fan Coil actuator REG-K Art.-Nr. 645093.
Note: If you already have the labelling software, you can download the form for the multi-function push-button at www.merten.com. Use to label conventional foils (max. thickness 0.1 mm). For each device only one flat size 60 mounting box and one flush-mounted module are required.
Contents: Screw for protection against dismantling.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**627344**	1/17	9	
polar white, glossy	**627319**	1/17	9	
active white, glossy	**627325**	1/17	9	
Thermoplastic classy matt				
white	**623244**	1/17	9	
polar white	**623219**	1/17	9	
anthracite	**623214**	1/17	9	
aluminium	**623260**	1/17	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Multi-function push-button, 4-gang with room temperature control unit

Application module for M-PLAN.
Convenient control unit with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light. With room temperature control unit and display. With integrated piezoelectric buzzer to display alarm states and IR receiver. All functions of the respective buttons can be controlled via IR remote control Distance.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day, display mode, time, switching times and brightness. The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.
KNX software functions:
Functions of the multi-function push-button:
Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, alarm functions, .the cyclic reading of external temperature values, fan control.
Functions of the room temperature control unit:
Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
Output: Continuous in the range 0..100% or switching ON/OFF
Controller mode:
- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs

Operating modes: comfort, comfort extension, standby, night economy, frost/heat protection
Operation: Menu

In KNX, to be completed with: Flush-mounted module for multi-function push-button with room temperature control unit, art. no. 623299. Frame, 2-gang without central bridge piece in M-PLAN design, art. no. 5873...
Accessories: Labelling software, art. no. 615022. Fan Coil actuator REG-K Art.-Nr. 645093.
Transmitter: IR remote control Distance, art. no. 570222.
Note: For each device only one flat size 60 mounting box and one flush-mounted module are required.
Contents: With screw for tamper-proofing, adhesive label, barrier covering the IR receiver.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**627444**	1/17	9	
polar white, glossy	**627419**	1/17	9	
active white, glossy	**627425**	1/17	9	
Thermoplastic classy matt				
white	**623644**	1/17	9	
polar white	**623619**	1/17	9	
anthracite	**623614**	1/17	9	
aluminium	**623660**	1/17	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Frame, 2-gang without central bridge piece

For M-PLAN.

Dimensions: 85.8 x 159 mm (HxW)

To be completed with: Orientation sign, art. no. System M 5869.., 5871.., 5868.., 5872.., multi-function push-button, 4-gang, with room temperature control unit, art. no. System M 6236.., 6274...

Version	Art. no.	PU	PG	Info
Thermoplastic classy matt				
white	**587344**	2/96	1	
polar white	**587319**	2/96	1	
anthracite	**587314**	2/96	1.1	
aluminium	**587360**	2/96	1.1	

Flush-mounted module for multi-function push-button with room temperature control unit

For the connection of multi-function push-buttons with room temperature control unit via an application interface.
For screw mounting in the size 60 installation box.
Flat design. With LED and push-button for programming.

Mounting depth: 20 mm

In KNX, to be completed with: Multi-function push-button, 2-gang, with room temperature control unit, art. no. System M 6232.., 6273, System Design 6287... Multi-function push-button, 2-gang, with room temperature control unit, art. no. System M 6274.., 6288, System Design 6236... PLANTEC multi-function push-button with room temperature control unit, art. no. 626008.
Accessories: Protective cover for plaster, art. no. 690098.
Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
	623299	1/50	9	

Push-button, 1-gang plus

For System Design.
With integrated bus coupling unit.
Push-button with two operating buttons, operating display, two blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign. The lower labelling field can be parameterised as an additional operating key.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.
The device is connected to the bus line with a bus connecting terminal.

KNX software functions:
Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.

Accessories: Labelling sheets for push-button plus art. no. 617819.
Contents: With protective hood for plaster. With bus connecting terminal.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**628044**	1/60	9	
polar white	**628019**	1/60	9	
aluminium	**628060**	1/60	9	
metallic				
stainless steel	**628046**	1/60	9	

Push-button, 2-gang plus

For System Design.
With integrated bus coupling unit.
Push-button with four operating buttons, operating display, four blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign. The lower labelling field can be parameterised as an additional operating key.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.
The device is connected to the bus line with a bus connecting terminal.

KNX software functions:
Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.

Accessories: Labelling sheets for push-button plus art. no. 617819.
Contents: With protective hood for plaster. With bus connecting terminal.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**628144**	1/60	9	
polar white	**628119**	1/60	9	
aluminium	**628160**	1/60	9	
metallic				
stainless steel	**628146**	1/60	9	

Push-button, 3-gang plus

For System Design.
With integrated bus coupling unit.
Push-button with six operating buttons, operating display, six blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign. The lower labelling field can be parameterised as an additional operating key.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.
The device is connected to the bus line with a bus connecting terminal.

KNX software functions:
Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.

Accessories: Labelling sheets for push-button plus art. no. 617819.
Contents: With protective hood for plaster. With bus connecting terminal.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**628244**	1/60	9	
polar white	**628219**	1/60	9	
aluminium	**628260**	1/60	9	
metallic				
stainless steel	**628246**	1/60	9	

Push-button, 4-gang plus

For System Design.
With integrated bus coupling unit.
Push-button with eight operating buttons, operating display, eight blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign. The lower labelling field can be parameterised as an additional operating key.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.
The device is connected to the bus line with a bus connecting terminal.

KNX software functions:
Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.

Accessories: Labelling sheets for push-button plus art. no. 617819.
Contents: With protective hood for plaster. With bus connecting terminal.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**628344**	1/60	9	
polar white	**628319**	1/60	9	
aluminium	**628360**	1/60	9	
metallic				
stainless steel	**628346**	1/60	9	

Push-button, 4-gang plus with IR receiver

For System Design.
With integrated bus coupling unit.
Push-button with eight operating buttons, operating display, eight blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign. The lower labelling field can be parameterised as an additional operating key.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.
The functions of each of the keys can be triggered using an IR remote control.
The push-button is pre-programmed for operation with a Merten IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught to the push-buttons.
The device is connected to the bus line with a bus connecting terminal.

KNX software functions:
Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.

Accessories: Labelling sheets for push-button plus art. no. 617819.
Transmitter: IR remote control Distance, art. no. 570222.
Contents: With protective hood for plaster. With bus connecting terminal.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**628444**	1/60	9	
polar white	**628419**	1/60	9	
aluminium	**628460**	1/60	9	
metallic				
stainless steel	**628446**	1/60	9	

Labelling sheets for push-button plus

For individual labelling of the System Design push-button plus with text or symbols.
The labelling sheet in polar white/silver can be used for polar white, aluminium-coloured and stainless steel push-buttons.

To be completed with: System Design push-button plus, art. no. 6280.., 6281.., 6282.., 6283.., 6284...
Accessories: Labelling software, art. no. 615022.
Contents: 1 sheet for 20 products.

Version	Art. no.	PU	PG	Info
	617819	1/100	9	

Multi-function push-button, 2-gang with room temperature control unit

Application module for System Design.
Convenient control unit with four operating buttons, operating display, four blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign.
With room temperature control unit and display.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day, display mode, time, switching times and brightness.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

KNX software functions:
Functions of the multi-function push-button:
Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, alarm functions, .the cyclic reading of external temperature values, fan control.
Functions of the room temperature control unit:
Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
Output: Continuous in the range 0..100% or switching ON/OFF
Controller mode:
- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs

Operating modes: comfort, comfort extension, standby, night economy, frost/heat protection
Operation: Menu

In KNX, to be completed with: Flush-mounted module for multi-function push-button with room temperature control unit, art. no. 623299.
Accessories: Labelling software, art. no. 615022. Fan Coil actuator REG-K Art.-Nr. 645093.
Note: If you already have the labelling software, you can download the form for the multi-function push-button at www.merten.com. Use to label conventional foils (max. thickness 0.1 mm).
Contents: Screw for protection against dismantling. With protective hood for plaster.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**628744**	1/17	9	
polar white	**628719**	1/17	9	
aluminium	**628760**	1/17	9	
metallic				
stainless steel	**628746**	1/17	9	

Multi-function push-button, 4-gang with room temperature control unit

Application module for System Design.
Convenient control unit with eight operating buttons, operating display, eight blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign.
With room temperature control unit and display.
With integrated piezoelectric buzzer to display alarm states and IR receiver. All functions of the respective buttons can be controlled via IR remote control Distance.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day, display mode, time, switching times and brightness.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

KNX software functions:
Functions of the multi-function push-button:
Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, alarm functions, .the cyclic reading of external temperature values, fan control.
Functions of the room temperature control unit:
Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
Output: Continuous in the range 0..100% or switching ON/OFF
Controller mode:
- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs

Operating modes: comfort, comfort extension, standby, night economy, frost/heat protection
Operation: Menu

In KNX, to be completed with: Flush-mounted module for multi-function push-button with room temperature control unit, art. no. 623299. ARTEC frame, 1.5-gang, art- no. 4819...
Accessories: Labelling software, art. no. 615022. Fan Coil actuator REG-K Art.-Nr. 645093.
Transmitter: IR remote control Distance, art. no. 570222.
Note: If you already have the labelling software, you can download the form for the multi-function push-button at www.merten.com. Use to label conventional foils (max. thickness 0.1 mm). For each device only one flat size 60 mounting box and one flush-mounted module are required.
Contents: With screw for tamper-proofing, adhesive label, barrier covering the IR receiver. With protective hood for plaster.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**628844**	1/17	9	
polar white	**628819**	1/17	9	
aluminium	**628860**	1/17	9	
metallic				
stainless steel	**628846**	1/17	9	

Flush-mounted module for multi-function push-button with room temperature control unit

For the connection of multi-function push-buttons with room temperature control unit via an application interface.
For screw mounting in the size 60 installation box.
Flat design. With LED and push-button for programming.

Mounting depth: 20 mm

In KNX, to be completed with: Multi-function push-button, 2-gang, with room temperature control unit, art. no. System M 6232.., 6273, System Design 6287... Multi-function push-button, 2-gang, with room temperature control unit, art. no. System M 6274.., 6288, System Design 6236... PLANTEC multi-function push-button with room temperature control unit, art. no. 626008.
Accessories: Protective cover for plaster, art. no. 690098.
Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
	623299	1/50	9	

ARTEC frame, 1.5-gang

Dimensions: 80.5 x 111.7 mm (WxH)

In KNX, to be completed with: Multi-function push-button, 4-gang, with room temperature control unit, art. no. System Design 6288...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**481944**	2/100	1	
polar white	**481919**	2/100	1	
aluminium	**481960**	2/100	1.2	
metallic				
stainless steel	**481946**	2/100	1.2	

Push-button, 1-gang

Application module for System Design.
Push-button with 2 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light. Green or red light circles around the operating buttons indicate the operating state.
KNX software functions:
The push-buttons can be parameterised with different applications either as a pair (dual-surface) or individually (single-surface).
Single-surface: switching, pulse edge.
Dual-surface: switching, dimming, blind control, pulse edge.
In combination with flush-mounted actuator, additionally: send value, send temperature values, disable buttons.

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.
Accessories: Labelling sheets for push-buttons, art. no. 618919/44. Protective hood for plaster, System Design, art. no. 628091...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**622344**	1/100	9	
polar white	**622319**	1/100	9	
vanilla	**622382**	1/100	9	
ice blue	**622388**	1/100	9	
light grey	**622329**	1/100	9	
midnight blue	**622378**	1/100	9	
dark brazil	**622315**	1/100	9	
black grey	**622369**	1/100	9	
aluminium	**622360**	1/100	9	
metallic				
stainless steel	**622346**	1/100	9	

Push-button, 2-gang

Application module for System Design.
Push-button with 4 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light. Green or red light circles around the operating buttons indicate the operating state.
KNX software functions:
The push-buttons can be parameterised with different applications either as a pair (dual-surface) or individually (single-surface).
Single-surface: switching, pulse edge.
Dual-surface: switching, dimming, blind control, pulse edge. In combination with flush-mounted actuator, additionally: send value, send temperature values, disable buttons.

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.
Accessories: Labelling sheets for push-buttons, art. no. 618919/44. Protective hood for plaster, System Design, art. no. 628091...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**622444**	1/100	9	
polar white	**622419**	1/100	9	
vanilla	**622482**	1/100	9	
ice blue	**622488**	1/100	9	
light grey	**622429**	1/100	9	
midnight blue	**622478**	1/100	9	
dark brazil	**622415**	1/100	9	
black grey	**622469**	1/100	9	
aluminium	**622460**	1/100	9	
metallic				
stainless steel	**622446**	1/100	9	

Push-button, 3-gang

Application module for System Design.
Push-button with 6 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light. Green or red light circles around the operating buttons indicate the operating state.

KNX software functions:
The push-buttons can be parameterised with different applications either as a pair (dual-surface) or individually (single-surface).
Dual-surface: switching, dimming, blind control.
In combination with flush-mounted actuator, additionally:
Single-surface: switching, pulse edges, send value. send temperature values, disable buttons.

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.
Accessories: Labelling sheets for push-buttons, art. no. 618919/44. Protective hood for plaster, System Design, art. no. 628091...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**622544**	1/100	9	
polar white	**622519**	1/100	9	
vanilla	**622582**	1/100	9	
ice blue	**622588**	1/100	9	
light grey	**622529**	1/100	9	
midnight blue	**622578**	1/100	9	
dark brazil	**622515**	1/100	9	
black grey	**622569**	1/100	9	
aluminium	**622560**	1/100	9	
metallic				
stainless steel	**622546**	1/100	9	

Push-button, 4-gang

Application module for System Design.
Push-button with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light. Green or red light circles around the operating buttons indicate the operating state.

KNX software functions:
The push-buttons can be parameterised with different applications either as a pair (dual-surface) or individually (single-surface).
Single-surface: pulse edge.
Dual-surface: switching, dimming, blind control.
In combination with flush-mounted actuator, additionally: send value, send temperature values, disable buttons. Free functional selection.

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.
Accessories: Labelling sheets for push-buttons, art. no. 618919/44. Protective hood for plaster, System Design, art. no. 628091...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**622644**	1/100	9	
polar white	**622619**	1/100	9	
vanilla	**622682**	1/100	9	
ice blue	**622688**	1/100	9	
light grey	**622629**	1/100	9	
midnight blue	**622678**	1/100	9	
dark brazil	**622615**	1/100	9	
black grey	**622669**	1/100	9	
aluminium	**622660**	1/100	9	
metallic				
stainless steel	**622646**	1/100	9	

Multi-function push-button, 4-gang

Application module for System Design.
Push-button with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light. Green or red light circles around the operating buttons indicate the operating state.
With additional parameterisable button.

KNX software functions:
The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surf.).
Single-surface: switching, dimming, pulse edge, send value, scenes.
Dual-surface: switching, dimming, blind control, send value.

In KNX, to be completed with: Bus coupler, flush-mounted 2, art. no. 690299, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.
Accessories: Labelling sheets for push-buttons, art. no. 618919/44. Protective hood for plaster, System Design, art. no. 628091...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**622744**	1/100	9	
polar white	**622719**	1/100	9	
vanilla	**622782**	1/100	9	
ice blue	**622788**	1/100	9	
light grey	**622729**	1/100	9	
midnight blue	**622778**	1/100	9	
dark brazil	**622715**	1/100	9	
black grey	**622769**	1/100	9	
aluminium	**622760**	1/100	9	
metallic				
stainless steel	**622746**	1/100	9	

Multi-function push-button, 4-gang with IR receiver

Application module for System Design.
Push-button with 8 operating buttons, 8 status displays, labelling field and IR receiver.
All functions of the respective buttons can be controlled via IR remote control Distance.
Green or red light circles around the operating buttons indicate the operating state.
The operating display can also be used as an orientation light. With additional button.

KNX software functions:
The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surf.).
Single-surface: switching, dimming, pulse edge, send value, scenes.
Dual-surface: switching, dimming, blind control, send value.

In KNX, to be completed with: Bus coupler, flush-mounted 2, art. no. 690299, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.
Accessories: Labelling sheets for push-buttons, art. no. 618919/44. Protective hood for plaster, System Design, art. no. 628091...
Transmitter: IR remote control Distance, art. no. 570222.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**622844**	1/100	9	
polar white	**622819**	1/100	9	
vanilla	**622882**	1/100	9	
ice blue	**622888**	1/100	9	
light grey	**622829**	1/100	9	
midnight blue	**622878**	1/100	9	
dark brazil	**622815**	1/100	9	
black grey	**622869**	1/100	9	
aluminium	**622860**	1/100	9	
metallic				
stainless steel	**622846**	1/100	9	

Labelling sheets for push-buttons

For individual labelling of the System Design push-buttons with text or symbols.
The labelling sheet in polar white/silver can be used for polar white, aluminium-coloured and stainless steel push-buttons.

To be completed with: System Design push-buttons, 1-gang, 2-gang, 3-gang or 4-gang, art. no. 6223.., 6224.., 6225.., 6226.., 6227.., 6228...
Accessories: Labelling software, art. no. 615022.
Contents: 2 sheets for every 20 products.

Version	Art. no.	PU	PG	Info
white	**618944**	1/100	9	
polar white/silver	**618919**	1/100	9	

Protective hood for plaster

For System Design
To protect push-buttons, rockers, room temperature control units and room controllers from contamination from painting and decorating work.

Accessories from: Push-button in System Design, art. no. 6223.., 6224.., 6225.., 6226... Multi-function push-button in System Design, art. no. 6227.., 6228... Rockers for push-button modules in System Design, art. no. 6261.., 6262.., 6264.., 6265.., 6266.., 6267.., 6268... Room temperature control unit, flush-mounted/PI, in System Design, art. no. 6249...
Note: When the protective hood for plaster is in place, the temperature measurement of the room temperature control unit is restricted.

Version	Art. no.	PU	PG	Info
	628091	10/160	9	

EIB push-button module, 1-gang

For System M.
Push-button module without rocker. With programmable status display.
The device is connected to the bus line with a bus connecting terminal. With integrated bus coupler.

KNX software functions:
The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surface).
Single-surface: Switch ON or switch OFF, dimming, scenes.
Dual-surface: Switch ON or switch OFF, dimming, scenes, blinds.

In KNX, to be completed with: Rocker for push-button module, 1-gang, art. no. System M6191.., 6251... Rocker for push-button module, 1-gang, with 1/0 imprint, art. no. System M 6193.., 6254... Rocker for push-button module, 1-gang, with up/down arrow imprint, art. no. System M 6194.., 6255...

Version	Art. no.	PU	PG	Info
	625199	1/60	9	

Rocker for 1-gang push-button module

For System M.
The rocker is attached to the 1-gang push-button module.

In KNX, to be completed with: EIB push-button module, 1-gang, art. no. System M 625199.
Accessories: Protective hood for plaster, System M, art. no. 627591...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**619144**	1/150	9	
polar white, glossy	**619119**	1/150	9	
active white, glossy	**619125**	1/150	9	
Thermoplastic classy matt				
white	**625144**	1/150	9	
polar white	**625119**	1/150	9	
anthracite	**625114**	1/150	9	
aluminium	**625160**	1/150	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Rocker for 1-gang push-button module with 1/0 imprint

For System M.
The rocker is attached to the 1-gang push-button module.

In KNX, to be completed with: EIB push-button module, 1-gang, art. no. System M 625199.
Accessories: Protective hood for plaster, System M, art. no. 627591...
Availability: New articles available June 2007.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
polar white, glossy	**619319**	1/150	9	
active white, glossy	**619325**	1/150	9	
Thermoplastic classy matt				
white	**625444**	1/150	9	
polar white	**625419**	1/150	9	
anthracite	**625414**	1/150	9	
aluminium	**625460**	1/150	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Rocker for 1-gang push-button module with up/down arrow imprint

For System M.
The rocker is attached to the 1-gang push-button module.

In KNX, to be completed with: EIB push-button module, 1-gang, art. no. System M 625199.
Accessories: Protective hood for plaster, System M, art. no. 627591...
Availability: New articles available June 2007.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
polar white, glossy	**619419**	1/150	9	
active white, glossy	**619425**	1/150	9	
Thermoplastic classy matt				
white	**625544**	1/150	9	
polar white	**625519**	1/150	9	
anthracite	**625514**	1/150	9	
aluminium	**625560**	1/150	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

EIB push-button module, 2-gang

For System M.
Push-button module without rockers. With programmable status display.
The device is connected to the bus line with a bus connecting terminal. With integrated bus coupler.

KNX software functions:
The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surface).
Single-surface: Switch ON or switch OFF, dimming, scenes.
Dual-surface: Switch ON or switch OFF, dimming, scenes, blinds.

In KNX, to be completed with: Rockers for 2-gang push-button module, art. no. System M 6192.., 6252... Rockers for push-button module, 2-gang, with 1/0 and up/down arrow imprint, art. no. System M 6195.., 6256... Rockers for push-button module, 2-gang, with up/down arrow and 1/0 imprint, art. no. System M 6196.., 6257... Rockers for push-button module, 2-gang, with up/down arrow imprint, art. no. System M 6197.., 6258...

Version	Art. no.	PU	PG	Info
	625299	1/60	9	

Rockers for 2-gang push-button module

For System M.
The rockers are attached to the 2-gang push-button module.

To be completed with: Push-button module, 2-gang, art. no. System M 568499.
In KNX, to be completed with: EIB push-button module, 2-gang, art. no. System M 625299.
Accessories: Protective hood for plaster, System M, art. no. 627591...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**619244**	1/150	9	
polar white, glossy	**619219**	1/150	9	
active white, glossy	**619225**	1/150	9	
Thermoplastic classy matt				
white	**625244**	1/150	9	
polar white	**625219**	1/150	9	
anthracite	**625214**	1/150	9	
aluminium	**625260**	1/150	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint

For System M.
The rockers are attached to the 2-gang push-button module.

To be completed with: Push-button module, 2-gang, art. no. System M 568499.
In KNX, to be completed with: EIB push-button module, 2-gang, art. no. System M 625299.
Accessories: Protective hood for plaster, System M, art. no. 627591...
Availability: New articles available June 2007.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
polar white, glossy	**619519**	1/150	9	
active white, glossy	**619525**	1/150	9	
Thermoplastic classy matt				
white	**625644**	1/150	9	
polar white	**625619**	1/150	9	
anthracite	**625614**	1/150	9	
aluminium	**625660**	1/150	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint

For System M.
The rockers are attached to the 2-gang push-button module.

To be completed with: Push-button module, 2-gang, art. no. System M 568499.
In KNX, to be completed with: EIB push-button module, 2-gang, art. no. System M 625299.
Accessories: Protective hood for plaster, System M, art. no. 627591...
Availability: New articles available June 2007.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
polar white, glossy	**619619**	1/150	9	
active white, glossy	**619625**	1/150	9	
Thermoplastic classy matt				
white	**625744**	1/150	9	
polar white	**625719**	1/150	9	
anthracite	**625714**	1/150	9	
aluminium	**625760**	1/150	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

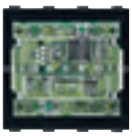
Rockers for 2-gang push-button module with up/down arrow imprint

For System M.
The rockers are attached to the 2-gang push-button module.

To be completed with: Push-button module, 2-gang, art. no. System M 568499.
In KNX, to be completed with: EIB push-button module, 2-gang, art. no. System M 625299.
Accessories: Protective hood for plaster, System M, art. no. 627591...
Availability: New articles available June 2007.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
polar white, glossy	**619719**	1/150	9	
active white, glossy	**619725**	1/150	9	
Thermoplastic classy matt				
white	**625844**	1/150	9	
polar white	**625819**	1/150	9	
anthracite	**625814**	1/150	9	
aluminium	**625860**	1/150	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant



EIB push-button module, 1-gang

For System Design
Push-button module without rocker. With programmable status display.
The device is connected to the bus line with a bus connecting terminal. With integrated bus coupler.

KNX software functions:
The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surface).
Single-surface: Switch ON or switch OFF, dimming, scenes.
Dual-surface: Switch ON or switch OFF, dimming, scenes, blinds.

In KNX, to be completed with: Rocker for 1-gang push-button module, art. no. System Design 6261... Rocker for push-button module, 1-gang, with 1/0 imprint, art. no. System Design 6264. Rocker for push-button module, 1-gang, with up/down arrow imprint, art. no. System Design 6265...

Version	Art. no.	PU	PG	Info
	626199	1/60	9	

Rocker for 1-gang push-button module

For System Design.
The rocker is attached to the 1-gang push-button module.

In KNX, to be completed with: EIB push-button module, 1-gang, art. no. System Design 626199.
Accessories: Protective hood for plaster, System Design, art. no. 628091...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**626144**	1/150	9	
polar white	**626119**	1/150	9	
aluminium	**626160**	1/150	9	
metallic				
varnished stainless steel	**626146**	1/150	9	

Rocker for 1-gang push-button module with 1/0 imprint

For System Design.
The rocker is attached to the 1-gang push-button module.

In KNX, to be completed with: EIB push-button module, 1-gang, art. no. System Design 626199.
Accessories: Protective hood for plaster, System Design, art. no. 628091...
Availability: New articles available June 2007.

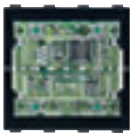
Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**626444**	1/150	9	
polar white	**626419**	1/150	9	
aluminium	**626460**	1/150	9	
metallic				
varnished stainless steel	**626446**	1/150	9	

Rocker for 1-gang push-button module with up/down arrow imprint

For System Design.
The rocker is attached to the 1-gang push-button module.

In KNX, to be completed with: EIB push-button module, 1-gang, art. no. System Design 626199.
Accessories: Protective hood for plaster, System Design, art. no. 628091...
Availability: New articles available June 2007.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**626544**	1/150	9	
polar white	**626519**	1/150	9	
aluminium	**626560**	1/150	9	
metallic				
varnished stainless steel	**626546**	1/150	9	



EIB push-button module, 2-gang

For System Design
Push-button module without rockers. With programmable status display.
The device is connected to the bus line with a bus connecting terminal. With integrated bus coupler.

KNX software functions:
The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surface).
Single-surface: Switch ON or switch OFF, dimming, scenes.
Dual-surface: Switch ON or switch OFF, dimming, scenes, blinds.

In KNX, to be completed with: Rockers for 2-gang push-button module, art. no. System Design 6262... Rockers for push-button module, 2-gang, with 1/0 and up/down arrow imprint, art. no. System Design 6266... Rockers for push-button module, 2-gang, with up/down arrow and 1/0 imprint, art. no. System Design 6267... Rockers for push-button module, 2-gang, with up/down arrow imprint, art. no. System Design 6268...

Version	Art. no.	PU	PG	Info
	626299	1/60	9	

Rockers for 2-gang push-button module

For System Design.
The rockers are attached to the 2-gang push-button module.

To be completed with: Push-button module, 2-gang, art. no. System Design 568199.
In KNX, to be completed with: EIB push-button module, 2-gang, art. no. System Design 626299.
Accessories: Protective hood for plaster, System Design, art. no. 628091...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**626244**	1/150	9	
polar white	**626219**	1/150	9	
aluminium	**626260**	1/150	9	
metallic				
varnished stainless steel	**626246**	1/150	9	

Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint

For System Design.
The rockers are attached to the 2-gang push-button module.

To be completed with: Push-button module, 2-gang, art. no. System Design 568199.
In KNX, to be completed with: EIB push-button module, 2-gang, art. no. System Design 626299.
Accessories: Protective hood for plaster, System Design, art. no. 628091...
Availability: New articles available June 2007.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**626644**	1/150	9	
polar white	**626619**	1/150	9	
aluminium	**626660**	1/150	9	
metallic				
varnished stainless steel	**626646**	1/150	9	

Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint

For System Design.
The rockers are attached to the 2-gang push-button module.

To be completed with: Push-button module, 2-gang, art. no. System Design 568199.
In KNX, to be completed with: EIB push-button module, 2-gang, art. no. System Design 626299.
Accessories: Protective hood for plaster, System Design, art. no. 628091...
Availability: New articles available June 2007.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**626744**	1/150	9	
polar white	**626719**	1/150	9	
aluminium	**626760**	1/150	9	
metallic				
varnished stainless steel	**626746**	1/150	9	

Rockers for 2-gang push-button module with up/down arrow imprint

For System Design.
The rockers are attached to the 2-gang push-button module.

To be completed with: Push-button module, 2-gang, art. no. System Design 568199.
In KNX, to be completed with: EIB push-button module, 2-gang, art. no. System Design 626299.
Accessories: Protective hood for plaster, System Design, art. no. 628091...

Availability: New articles available June 2007.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**626844**	1/150	9	
polar white	**626819**	1/150	9	
aluminium	**626860**	1/150	9	
metallic				
varnished stainless steel	**626846**	1/150	9	

IP20

Bus coupling insert, 1-gang

The rocker for switches and push-button switches, the rocker marked "0"/ "1", the rocker with labelling field and the rocker with opening for symbols from System Basis, System Design and OctoColor can all be fitted on the 1-gang bus coupling insert. With programmable operating or status display for rockers with opening for symbols. We can also adapt the switch ranges AQUADESIGN, AQUACLASSIC and ANTI-VANDALISM for the 1-gang bus coupling insert as a special version.
With integrated bus coupler. In the version with middle position, the rockers can be moved up and down (three-way rocker). In the version without middle position, telegrams are only generated when the lower half of the rocker is pressed (two-way rocker).
For mounting in the size 60 installation box. With push-button and LED for programming.

KNX software functions:
For art. no. 671198: Switching. Toggling. Status display.
For art. no. 671199: Switching. Dimming. Blinds. Toggling. Status display.

Version	Art. no.	PU	PG	Info
with middle position	**671199**	1/50	9	
without middle position	**671198**	1/50	9	

IP20

Bus coupling insert, 2-gang

The rocker for two-circuit switches, the rocker for roller shutter switches and push-buttons from System Basis, System M, System Design and OCTOCOLOR can all be fitted on the 2-gang bus coupling insert. We can also adapt the switch ranges AQUADESIGN and AQUACLASSIC for the 2-gang bus coupling insert as a special version.
With integrated bus coupler. In the version with middle position, the rockers can be moved up and down (three-way rocker). In the version without middle position, telegrams are only generated when the lower half of the rocker is pressed (two-way rocker).
For mounting in the size 60 installation box. With push-button and LED for programming.

KNX software functions:
For art. no. 671298: Switching. Toggling. Dimming. 1 group of blinds.
For art. no. 671299: Switching. Toggling. Dimming. 2 groups of blinds.

Version	Art. no.	PU	PG	Info
with middle position	**671299**	1/50	9	
without middle position	**671298**	1/50	9	

Labelling software

For professional labelling of DIN A4 labelling sheets in System Basis, System M, System Design and OCTOCOLOR.

Version	Art. no.	PU	PG	Info
	615022	1/20	9.1	

Binary inputs

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

Push-button interface, 2-gang plus

Generates an internal signal voltage for connecting two conventional push-buttons or floating contacts, and for connecting two low-current LEDs. The cores are 30 cm long and can be extended to max. 7.5 m. For installation in a conventional 60 mm switch box.

KNX software functions:
Switching, dimming or controlling blinds via 1 or 2 inputs, position values for blind control (8-bit), pulse edges with 1-, 2-, 4-, or 8-bit telegrams, differentiation between short and long activation, initialisation telegram, cyclical transmission, pulse edges with 2-byte telegrams, 8-bit linear regulator, scenes, counter, disable function, break contact/make contact, debounce time. Outputs for connecting control lamps (low-current LEDs) for the status display.

For each input/output object type:
Contact voltage: < 3 V (SELV)
Contact current: < 0.5 mA
Output current: max. 2 mA
Max. cable length: 30 cm unshielded, can be extended up to max. 7.5 m with twisted unshielded cable.
Dimensions: approx. 40x30.5x12.5 mm (LxWxH)

Accessories: LED light attachment, two-colour, for switch inserts art. no. 396512.

Version	Art. no.	PU	PG	Info
polar white	**670802**	1/150	9	

Push-button interface, 4-gang plus

Generates an internal signal voltage for connecting four conventional push-buttons or floating contacts, and for connecting four low-current LEDs. The cores are 30 cm long and can be extended to max. 7.5 m. For installation in a conventional 60 mm switch box.

KNX software functions:
Switching, dimming or controlling blinds via 1 or 2 inputs, position values for blind control (8-bit), pulse edges with 1-, 2-, 4-, or 8-bit telegrams, differentiation between short and long activation, initialisation telegram, cyclical transmission, pulse edges with 2-byte telegrams, 8-bit linear regulator, scenes, counter, disable function, break contact/make contact, debounce time. Outputs for connecting control lamps (low-current LEDs) for the status display.

For each input/output object type:
Contact voltage: < 3 V (SELV)
Contact current: < 0.5 mA
Output current: max. 2 mA
Max. cable length: 30 cm unshielded, can be extended up to max. 7.5 m with twisted unshielded cable.
Dimensions: approx. 40x30.5x12.5 mm (LxWxH)

Accessories: LED light attachment, two-colour, for switch inserts art. no. 396512.

Version	Art. no.	PU	PG	Info
polar white	**670804**	1/150	9	

LED light attachment, two-colour, for switch inserts

DC 3.3 V, 2 mA

For all 1- and 2-pole switch inserts.
For monitoring or lighting applications. The LED light attachment has a two-colour LED (red/green), the colour which lights up depends on the connection concerned.

To be completed with: Push-button interface, art. no. 670802, 670804, 763004.
Note: When using the push-button interface art. no. 670802, 670804 or 763004, a current limiter is not required. When using with other devices, the voltage must be between 3.3 V and 24 V. Please note that the maximum current must be limited to 30 mA.
Contents: With LED.

Version	Art. no.	PU	PG	Info
	396512	1/150	1	

Binary input, flush-mounted/4x10

For connecting four conventional push-buttons or floating contacts to the KNX. Internally generates a signal voltage SELV, electrically isolated from the bus.
With integrated bus coupler 2. Insertion in a 40 mm deep installation box.

KNX software functions:
Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2- or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.

Inputs: 4
Contact voltage: max. 10 V, clocked
Contact current: max. 2 mA, pulsing
Cable length: max. 50 m, bus connecting cable or bell wire (Y, J-FY, YR)
Dimensions: 48x44x33 mm (HxWxD)

Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
	639898	1/50	9	

Binary input REG-K/4x10

For connecting four conventional push-buttons or floating contacts to the KNX. Internally generates a signal voltage SELV, electrically isolated from the bus.
With integrated bus coupler and plug-in screw terminals. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.
The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded.

KNX software functions:
Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.

Inputs: 4
Contact voltage: max. 10 V, clocked
Contact current: max. 2 mA, pulsing
Cable length: max. 50 m
Device width: 2.5 modules = approx. 45 mm

Contents: With bus connecting terminal and cable cover.
Availability: Available June 2007.

Version	Art. no.	PU	PG	Info
light grey	**644492**	1/30	9.3	

Binary input REG-K/8x10

For connecting eight conventional push-buttons or floating contacts to the KNX. Internally generates a signal voltage SELV, electrically isolated from the bus.
With integrated bus coupler and plug-in screw terminals. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.
The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded.

KNX software functions:
Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.

Inputs: 8
Contact voltage: max. 10 V, clocked
Contact current: max. 2 mA, pulsing
Cable length: max. 50 m
Device width: 4 modules = approx. 70 mm

Contents: With bus connecting terminal and cable cover.
Availability: Available April 2007.

Version	Art. no.	PU	PG	Info
light grey	**644592**	1/10	9.3	

Binary input REG-K/4x24

For connecting four conventional devices with AC/DC 24 V outputs to the KNX.
With integrated bus coupler and plug-in screw terminals. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.
The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded.

KNX software functions:
Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.

Input voltage: AC / DC 24 V
Inputs: 4
Input current: DC 15 mA (30 V),
AC 6 mA (27 V)
0 signal: ≤ 5 V
1 signal: ≥ 11 V
Cable length: max. 100 m
Device width: 2.5 modules = approx. 45 mm

Accessories: Power supply REG, DC 24 V/0.4 A, art. no. 693003. Power supply REG, DC 24 V/1 A, art. no. 693004. Power supply REG, AC 24 V / 1 A, art. no. 663529.
Contents: With bus connecting terminal and cable cover.
Availability: Available June 2007.

Version	Art. no.	PU	PG	Info
light grey	**644892**	1/30	9.3	

Binary input REG-K/8x24

For connecting 8 conventional devices with AC/DC 24 V outputs to KNX.
With integrated bus coupler and plug-in screw terminals. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.
The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded.

KNX software functions:
Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.

Input voltage: AC/DC 24V
Inputs: 8
Input current: DC approx. 15 mA/AC approx. 6 mA
Line length: max. 100 m
Device width: 4 modules = approx. 72 mm

Accessories: Power supply REG, DC 24 V/0.4 A, art. no. 693003. Power supply REG, DC 24 V/1 A, art. no. 693004. Power supply REG, AC 24 V / 1 A, art. no. 663529.
Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**644792**	1/10	9.3	

Binary input REG-K/4x230

For connecting four conventional devices with AC 230 V outputs to the KNX.
With integrated bus coupler and plug-in screw terminals. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.
The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded.

KNX software functions:
Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.

Input voltage: AC 230 V, 50-60Hz
Inputs: 4
Input current: AC 12 mA
0 signal: ≤ 40 V
1 signal: ≥ 160 V
Cable length: max. 100 m
Device width: 2.5 modules = approx. 45 mm

Contents: With bus connecting terminal and cable cover.
Availability: Available June 2007.

Version	Art. no.	PU	PG	Info
light grey	**644992**	1/30	9.3	

Binary input REG-K/8x230

For connecting eight conventional devices with AC 230 V outputs to the KNX.
With integrated bus coupler and plug-in screw terminals. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.
The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded.

KNX software functions:
Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.

Input voltage: AC 230V, 50-60Hz
Inputs: 8
Input current: AC approx. 7 mA
Line length: max. 100 m
Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**644692**	1/10	9.3	

Other sensors

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

INSTABUS ARGUS 220 Connect

KNX movement detector for outdoors.
Potentiometers for setting functions are located underneath the cover plate. With integrated bus coupler. A programming magnet is necessary to program the physical address.

KNX software functions:
The function of a staircase timer can be configured with an OFF delay of one second to 152 hours. It can also be switched or blocked by the bus. The switch threshold of the light-sensitive switch can be configured with a potentiometer. The status of the light-sensitive switch can be issued as a telegram on the bus. Cyclical transmission of the detected movement can be programmed. Up to 4 functions can be activated simultaneously when a movement is detected.

Angle of detection: 220°
Range: max. 16 m
Number of levels: 7
Number of zones: 112 with 448 switching segments
Light sensor: infinitely adjustable from 3-1000 lux
Time: can be set externally from 1 sec. to approx. 8 min. in 6 levels or via ETS from approx. 3 sec. to approx. 152 hours.
Sensitivity: infinitely adjustable
Possible to set the sensor head
Wall mounting: 9° up, 24° down, 12° left/right, ± 12° axial
Ceiling mounting: 4° up, 29° down, 25° left/right, ± 8.5° axial
EC guidelines: Low voltage guideline 73/23/EEC and EMC guideline 89/336/EEC
Type of protection: IP 55

IP55

Accessories: Mounting bracket, art. no. 565291/92/93. Programming magnet for valve drive EMO, art. no. 639190.
Technical Information: ARGUS 220 Connect/Timer (⇒ p. 491)
Contents: With cover plate and segments to limit the area of detection, screws and plugs.

Version	Art. no.	PU	PG	Info
polar white	**631519**	1/12	9	
dark brazil	**631515**	1/6	9	
aluminium	**631569**	1/6	9	

ARGUS 180, flush-mounted

Application module for System M.
Movement detector for indoors.
When a movement is detected, a data telegram defined by the programming is transmitted.

KNX software functions:
The function of a staircase timer can be set with an OFF delay of one second to 152 hours and can also be switched or blocked by the bus. The switch threshold of the light-sensitive switch can be configured with a potentiometer. The status of the light-sensitive switch can be issued as a telegram on the bus. Cyclical transmission of the detected movement can be programmed. Up to 4 functions can be activated simultaneously when a movement is detected.

Range: 8 m
Area of detection: 180°
Light sensors: infinitely adjustable from approx. 5 to 1000 lux

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**629044**	1/50	9	
polar white, glossy	**629019**	1/50	9	
active white, glossy	**629025**	1/50	9	
Thermoplastic classy matt				
white	**624344**	1/50	9	
polar white	**624319**	1/50	9	
anthracite	**624314**	1/50	9	
aluminium	**624360**	1/50	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

ARGUS 180, flush-mounted

Application module for System Design.
Movement detector for indoors.
When a movement is detected, a data telegram defined by the programming is transmitted.

KNX software functions:
The function of a staircase timer can be set with an OFF delay of one second to 152 hours and can also be switched or blocked by the bus. The switch threshold of the light-sensitive switch can be configured with a potentiometer. The status of the light-sensitive switch can be issued as a telegram on the bus. Cyclical transmission of the detected movement can be programmed. Up to 4 functions can be activated simultaneously when a movement is detected.

Range: 8 m
Area of detection: 180°
Light sensors: infinitely adjustable from approx. 5 to 1000 lux

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.

Antique brass on request.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**621444**	1/50	9	
polar white	**621419**	1/50	9	
vanilla	**621482**	1/50	9	
ice blue	**621488**	1/50	9	
light grey	**621429**	1/50	9	
midnight blue	**621478**	1/50	9	
dark brazil	**621415**	1/50	9	
black grey	**621469**	1/50	9	
aluminium	**621460**	1/50	9	
metallic				
varnished stainless steel	**621446**	1/50	9	

ARGUS 180 / 2.20 m, flush-mounted

Application module for System M.
Indoor movement detector with anti-crawl protection.
When a movement is detected, a data telegram defined by the programming is transmitted.

KNX software functions:
The function of a staircase timer can be set with an OFF delay of one second to 152 hours and can also be switched or blocked by the bus. The switch threshold of the light-sensitive switch can be configured with a potentiometer. The status of the light-sensitive switch can be issued as a telegram on the bus. Cyclical transmission of the detected movement can be programmed. Up to 4 functions can be activated simultaneously when a movement is detected.

Area of detection: 180°
Number of levels: 6
Number of zones: 46
Range: 8 m right/left, 12 m to the front
Light sensor: infinitely adjustable from approx. 5 to 1000 lux
Time: adjustable in steps of 1 s to 8 min, or set individually via the software
Mounting height: 2.2 m or 1.1 m with half the range

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099, switch actuator, flush-mounted, art. no. 627099, series actuator, flush-mounted, art. no. 627199, blind actuator, flush-mounted, art. no. 627299.
Contents: With cover segments to limit the area of detection.
Availability: Available August 2006.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**630344**	1/40	9	
polar white, glossy	**630319**	1/40	9	
active white, glossy	**630325**	1/40	9	
Thermoplastic classy matt				
white	**630244**	1/40	9	
polar white	**630219**	1/40	9	
anthracite	**630214**	1/40	9	
aluminium	**630260**	1/40	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

INSTABUS ARGUS Presence

Indoor presence detection.
The INSTABUS ARGUS Presence detects the slightest movement in a room and transmits data telegrams via the KNX.
If the lighting is controlled by brightness-dependent movement detection, the device constantly monitors the brightness in the room, and when there is sufficient natural light, it deactivates the actuator for the artificial light even if there is still someone in the room. The overshoot time can be adjusted using the ETS.
With integrated bus coupler. For mounting on the ceiling in a 60 mm installation box. Optimum height 2.50 m. With the surface-mounted housing for ARGUS Presence, the device can also be installed in non-suspended ceilings.

KNX software functions:
Movement detection can trigger up to three functions simultaneously (1xpresence function). Dynamic overshoot time, which is determined depending on the use of the room. Interconnection of large systems possible (master/slave).

Angle of detection: 360°
Range: a radius of max. 7 m from installation site (at a mounting height of 2.50 m).
Number of levels: 6
Number of zones: 136 w. 544 switching segments
Light sensor: infinitely adjustable from approx. 10 to 1000 lux using the ETS
EC guidelines: Low voltage guideline 73/23/EEC and EMC guideline 89/336/EEC

Accessories: Surface-mounted housing for ARGUS Presence, art. no. 550619.
Technical Information: ARGUS Presence (⇒ p. 502)
Contents: With bus connecting terminal and supporting plate.

Version	Art. no.	PU	PG	Info
polar white	**630590**	1/6	9	

INSTABUS ARGUS Presence with constant lighting control

Indoor presence detection.
Features as for INSTABUS ARGUS Presence, art. no. 630590.
Lighting control triggered by presence is achieved using an integral brightness sensor. With integrated bus coupler.
If the lighting is controlled by brightness-dependent movement detection, the device constantly monitors the brightness in the room. ARGUS regulates the artificial light or switches it off when there is sufficient natural light, even if there is still someone in the room. The overshoot time can be adjusted using the ETS.

Angle of detection: 360°
Range: a radius of max. 7 m from installation site (at a mounting height of 2.50 m).
Number of levels: 6
Number of zones: 136 with 544 switching segments
Light sensor: infinitely adjustable from approx. 10 to 1000 lux using the ETS
EC guidelines: Low voltage guideline 73/23/EEC and EMC guideline 89/336/EEC

Accessories: Surface-mounted housing for ARGUS Presence, art. no. 550619.
Technical Information: ARGUS Presence (⇒ p. 502)
Contents: With bus connecting terminal and supporting plate.

Version	Art. no.	PU	PG	Info
polar white	**630592**	1/6	9	

INSTABUS ARGUS Presence with IR receiver

Indoor presence detection.
As for INSTABUS ARGUS Presence, art. no. 630590.
IR remote control. The infrared commands are converted into the corresponding data telegrams. Up to 10 channels can be controlled. With integrated bus coupler.
If the lighting is controlled by brightness-dependent movement detection, the device constantly monitors the brightness in the room and when there is sufficient natural light, it deactivates the actuator for the artificial light even if there is still someone in the room. The overshoot time can be adjusted using the ETS.

Angle of detection: 360°
Range: a radius of max. 7 m from installation site (at a mounting height of 2.50 m).
Number of levels: 6
Number of zones: 136 with 544 switching segments
Light sensor: infinitely adjustable from approx. 10 to 1000 lux using the ETS
EC guidelines: Low voltage guideline 73/23/EEC and EMC guideline 89/336/EEC

Accessories: Surface-mounted housing for ARGUS Presence, art. no. 550619.
Transmitter: IR remote control Distance, art. no. 570222.
Technical Information: ARGUS Presence (⇒ p. 502)
Contents: With bus connecting terminal and supporting plate.

Version	Art. no.	PU	PG	Info
polar white	**630591**	1/6	9	

Surface-mounted housing for ARGUS Presence

The surface-mounted housing for ARGUS Presence devices also allows them to be surface mounted.

To be completed with: ARGUS Presence, art. no. 550590/91. INSTABUS ARGUS Presence, art. no. 630590/91/92.
Technical Information: ARGUS Presence (⇒ p. 502)

Version	Art. no.	PU	PG	Info
polar white	**550619**	1/21	8	

IR remote control Distance 2010

10-channel IR remote control. For the control of all TELE sensor covers, blind push-buttons with IR receiver, presence detectors with IR receiver and KNX devices with IR receivers.

Battery: 2 microcells (IEC LR 03, AAA)
Range: up to 20 m

Receiver: TELE sensor cover, art. no. System M 5779.., 5703.., 5711.., System Basis 5748.., System Design 5709.., OCTOCOLOR 5749... Blind push-button with IR receiver and sensor connection, art. no. System M 5880.., 5864.., System Basis 5804..,System Design 5844.., OCTOCOLOR 5824... ARGUS Presence with IR receiver, art. no. 550591, 630591. KNX IR receiver flush-mounted art. No. System Design 6235.. KNX multi-function push-button with IR receiver, art. no. 623008 System M 6292.., 6242.., 6274.., 6236.., 6175.., 6279.., System Design 6228.., Plantec 626008, 623008. Push-button, 4-gang plus with IR receiver, art. no. System M 6175.., 6279...
Contents: Without battery.

Version	Art. no.	PU	PG	Info
black	**570222**	1/48	8	

Analogue input REG-K 4-gang

The analogue input records and processes analogue sensor signals. Up to four analogue sensors can be connected in any combination. In connection with the analogue input module REG/4-gang, 8 analogue inputs are available, to which the connection is made using the sub-bus.
For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.
Evaluation and limit value processing is performed in the analogue input. With continuity checking of the 4 ... 20 mA inputs.

Auxiliary voltage: AC 24 V (+/-10 %)
Analogue inputs: 4
Current interface: 0 ... 20 mA, 4 ... 20 mA
Voltage interface: 0 ... 1 V, 0 ... 10 V
Outputs: DC 24 V, 100 mA
Continuity checking: 4 ... 20 mA
Device width: 4 modules = approx. 72 mm

In KNX, to be completed with: Power supply REG, AC 24 V / 1 A, art. no. 663529.
Accessories: Analogue input module REG/4-gang, art. no. 682192. Wind sensor with 0-10 V interface, art. no. 663591. Wind sensor with 0-10 V interface and heating, art. no. 663592. Rain sensor, art. no. 663595. Brightness sensor, art. no. 663593: Twilight sensor, art. no. 663594: Temperature sensor, art. no. 663596.
Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**682191**	1/25	9.3	

Analogue input module REG/4-gang

Extension module to extend weather station REG-K/4-gang and analogue input REG-K/4-gang from 4 to 8 analogue outputs. Connections are made using the sub-bus. Up to four analogue sensors can be connected in any combination.
For installation on DIN rails EN 50022.
Evaluation and limit value processing is performed in the analogue input or weather station. With continuity checking of the 4 ... 20 mA inputs.

Auxiliary voltage: AC 24 V (+/-10 %)
Rating: max. 4 VA
Analogue inputs: 4
Current interface: 0 ... 20 mA, 4 ... 20 mA
Voltage interface: 0 ... 1 V, 0 ... 10 V (DC)
A/D conversion: 14 bit
Outputs: DC 24 V, 100 mA
Continuity checking: 4 ... 20 mA
Device width: 4 modules = approx. 72 mm

In KNX, to be completed with: Weather station REG-K/4-gang, art. no. 682991. Analogue input REG-K/4-gang, art. no. 682191. Power supply REG, AC 24 V / 1 A, art. no. 663529.
Accessories: Wind sensor with 0-10 V interface, art. no. 663591. Wind sensor with 0-10 V interface and heating, art. no. 663592. Rain sensor, art. no. 663595. Brightness sensor, art. no. 663593: Twilight sensor, art. no. 663594: Temperature sensor, art. no. 663596.
Contents: With sub-bus jumper.

Version	Art. no.	PU	PG	Info
light grey	**682192**	1/25	9.3	

Brightness controller, built-in/HR1

For brightness-dependent control and regulation of switch actuators and dimmer actuators. The device is suitable for surface mounting and for installing in devices, e.g. in lamps. With integrated bus coupler.
The light sensor is installed in the ceiling with the clamping spring and rosette. The brightness values measured by the light sensor are transmitted to the controller which then controls the lighting via the KNX.

KNX software functions:
Device adjusts to the lighting conditions. Lighting control. Transmission of brightness value. Two-step control.

Controller:
Adjustment range: 150 ... 1950 Lux
Connections:
To the light sensor: Screwless plug-in terminal
To the bus: Bus connecting terminal
Dimensions: 243 x 42 x 28 mm (L x W x H)
Light sensor:
Connections: 3 x 0.6 mm² with 1.5 m cable
Length of connecting cable
Controller/light sensor: 1.5 m, cannot be extended
Dimensions: 77.4 x 26 x 25 mm (L x W x H)

Contents: With bus connecting terminal, lighting controller, light sensor with cable, clamping spring and rosette.

Version	Art. no.	PU	PG	Info
light grey	**650629**	1/7	9	

Light-sensitive switch REG-S/DS1

For brightness-dependent control of switch and blind actuators for example. For mounting on DIN rails EN 50022-35 x 7.5, with integrated data rail. Without bus coupler, with light sensor and application interface looped through at the side for plugging onto the bus coupler REG (ordered separately).

KNX software functions:
Possible to program behaviour when the switch threshold is reached. ON and OFF delay times can also be programmed.

Connection length for twilight switch / brightness sensor: max. 100 m
Adjustment ranges: 2-300 lux and 200-20,000 lux
Hysteresis: approx. 1.3 times the set value
Device width: 2 modules = approx. 36 mm

In KNX, to be completed with: Bus coupler REG, art. no. 690599. Data rail, art. no. 6899 ..

Version	Art. no.	PU	PG	Info
light grey	**670601**	1/24	9.3	

Weather station REG-K/4-gang

The weather station records and processes analogue sensor signals such as wind speed, brightness, twilight, precipitation and a DCF-77 signal. Up to four analogue sensors and the DCF-77 weather combi-sensor can be connected in any combination.
In connection with the 4-gang analogue input module, 8 analogue inputs are available, to which the connection is made using the sub-bus.
For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.
If DCF-77 weather combi-sensors are used, it is possible to access a pre-configured setting in the software.
The measured values are converted by the weather station into 1 byte / 2 byte telegrams (EIS 6/5 value). This enables bus devices (visualisation software, measured value displays) to access the control processes, generate signals or control weather-dependent processes. Programming is performed using the ETS tool for the weather station.

Functions:
- Two limit values per sensor (not for rain)
- Connection of multiple wind sensors
- 14 signals can be evaluated
- Evaluation of DCF-77 time signal (date and time)
- Astro function
- Logic operation controller for application of limit-value-dependent actions (even external)
- Shading of individual façade segments
- Signal monitoring of the combi-sensors with object for the following protective measures
- Checking the wind signal for conclusiveness with object for the following protective measures
- Selective façade shading (for 4 façades) with adjustment of the basic brightness, façade alignment, angle of opening relative to the sun.
- External objects for intervention in basic brightness, angle of opening and limit values
- Alarm byte
- Continuity monitoring with report on the bus

Auxiliary voltage: AC 24 V (+/-10 %)
Analogue inputs: 4
Current interface: 0 ... 20 mA, 4 ... 20 mA
Voltage interface: 0 ... 1 V, 0 ... 10 V
Outputs: DC 24 V, 100 mA
Device width: 4 modules = approx. 72 mm

In KNX, to be completed with: Power supply REG, AC 24 V / 1 A, art. no. 663529. ETS tool for weather station, art. no. 615048. **Accessories:** Analogue input module REG/4-gang, art. no. 682192. Weather combi-sensor/DCF-77, art. no. 663692. Wind sensor with 0-10 V interface, art. no. 663591. Wind sensor with 0-10 V interface and heating, art. no. 663592. Rain sensor, art. no. 663595. Brightness sensor, art. no. 663593: Twilight sensor, art. no. 663594: Temperature sensor, art. no. 663596.

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**682991**	1/25	9.3	

ETS tool for weather station

Programming software for the ETS for parameterising the weather station REG-K/4-gang.

In KNX, to be completed with: Weather station REG-K/4-gang, art. no. 682991.

Price on request.

Note: The software is available on the Internet or on the Merten info CD.

Version	Art. no.	PU	PG	Info
	615048	1/1	9	

IP65

Weather combi-sensor DCF-77

The weather combi-sensor includes a wind sensor, precipitation sensor, twilight sensor and three brightness sensors (East, South, West). With integral DCF-77 receiver, antenna rotatable through 45° and integral heating. Suitable for external installation on a wall or on a mast. The sensor is connected to a weather station REG-K/4-gang. The weather data is evaluated in the weather station. The necessary power supplies are provided by the weather station with connected power supply REG.

Power supply: AC 24 V (+/- 15 %)
Power consumption: max. 600 mA (with heating)
Sensors: 6
Wind speed: 1 ... 40 m/s (≤ 0.5 m/s)
Brightness: 0 ... 110 klux (+/- 10 %)
Twilight 0 ... 250 lux
Type of protection: IP 65 when installed
Temperature range: - 40 °C ... + 60 °C (non-icing)
Fixing method: Mounting bracket
Dimensions: 130x200 mm (∅xH)

In KNX, to be completed with: Weather station REG-K/4-gang, art. no. 682991.

Note: If weather-dependent automatic functions are to be carried out, use the blind actuators art. no. 6498...

Version	Art. no.	PU	PG	Info
black	**663692**	1/1	9	

IP65

Wind sensor with 0-10 V interface

The wind sensor evaluates the wind speed and converts it into an analogue 0-10 V output voltage. For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.

Measuring range: 0.7 ... 40 m/s, linear
Output: 0 ... 10 V
External power supply:
Voltage: 24 V DC (18-32 V DC)
Power consumption: approx. 12 mA
General specifications:
Type of protection: IP 65
Load: max. 60 m/s transient
Incoming cable: 3 m, LiYY 6 x 0.25 mm²
Fixing method: Mounting bracket
Mounting position: vertical

In KNX, to be completed with: Weather station REG-K/4-gang, art. no. 682991. Analogue input REG-K/4-gang, art. no. 682191. Analogue input module REG/4-gang, art. no. 682192.

Contents: With mounting bracket.

Version	Art. no.	PU	PG	Info
polar white	**663591**	1/2	9	

IP65

Wind sensor with 0-10 V interface and heating

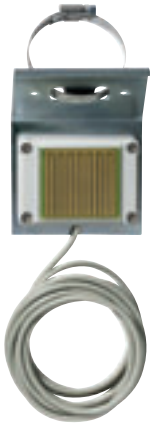
The wind sensor evaluates the wind speed and converts it into an analogue 0-10 V output voltage. The integrated heater can be operated via an external power supply of AC 24 V/500 mA for trouble-free operation in frosty weather.
For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.

Measuring range: 0.7 ... 40 m/s, linear
Output: 0 ... 10 V
External power supply:
Voltage: 24 V DC (18-32 V DC)
Power consumption: approx. 12 mA
Heating: 24 V DC/AC PTC element (80° C)
General specifications:
Type of protection: IP 65
Load: max. 60 m/s transient
Incoming cable: 3 m, LiYY 6 x 0.25 mm²
Fixing method: Mounting bracket
Mounting position: vertical

In KNX, to be completed with: Weather station REG-K/4-gang, art. no. 682991. Analogue input REG-K/4-gang, art. no. 682191. Analogue input module REG/4-gang, art. no. 682192.
Accessories: Power supply REG, AC 24 V / 1 A, art. no. 663529.

Contents: With mounting bracket.

Version	Art. no.	PU	PG	Info
polar white	**663592**	1/2	9	



IP65

Rain sensor

The rain sensor is used to record and evaluate precipitation and is intended for external mounting. A sensor evaluates the conductivity of the rainwater. The heating is controlled by a microprocessor which supplies an output signal of 0 V or 10 V. The end of the rainfall can be recorded almost immediately with the help of an in-built heater. The heater requires an additional voltage of 24 V AC or DC. For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.

Output: 0 V dry, 10 V rain
External power supply:
Voltage: 24 V DC (15-30 V DC)
Power consumption: approx. 10 mA (without heating)
Heating: 24 V DC/AC max. 4.5 W
General specifications:
Type of protection: IP 65
Incoming cable: 3 m, UYY 5 x 0.25 mm²
Fixing method: Mounting bracket
Mounting position: approx. 45°

In KNX, to be completed with: Weather station REG-K/4-gang, art. no. 682991. Analogue input REG-K/4-gang, art. no. 682191. Analogue input module REG/4-gang, art. no. 682192.
Accessories: Power supply REG, AC 24 V / 1 A, art. no. 663529.
Contents: With holder for installing the sensor on walls and masts.

Version	Art. no.	PU	PG	Info
	663595	1/5	9	

IP65

Brightness sensor

The brightness sensor is required for recording and evaluating brightness. Brightness is recorded via a photoelectric diode and electronically converted into an analogue output signal of 0 V - 10 V. For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.

Measuring range: 0 to 60,000 lux, linear
Output: 0 ... 10 V short-circuit-proof
External power supply:
Voltage: 24 V DC (15-30 V DC)
Power consumption: approx. 5 mA
General specifications:
Incoming cable: using PG7 screw fitting
Recommended cable: 3 x 0.25 mm²
Type of protection: IP 65
Dimensions: 58 x 35 x 64 (W x H x D)

In KNX, to be completed with: Weather station REG-K/4-gang, art. no. 682991. Analogue input REG-K/4-gang, art. no. 682191. Analogue input module REG/4-gang, art. no. 682192.

Version	Art. no.	PU	PG	Info
light grey	**663593**	1/80	9	

IP65

Twilight sensor

The twilight sensor is required to record and evaluate brightness. Brightness is recorded via a photoelectric diode and electronically converted into an analogue output signal of 0 V - 10 V.
For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.

Measuring range: 0 to 255 lux, linear
Output: 0 ... 10 V short-circuit-proof
External power supply:
Voltage: 24 V DC (15-30 V DC)
Power consumption: approx. 5 mA
General specifications:
Incoming cable: using PG7 screw fitting
Recommended cable: 3 x 0.25 mm²
Type of protection: IP 65
Dimensions: 58 x 35 x 64 (W x H xD)

In KNX, to be completed with: Weather station REG-K/4-gang, art. no. 682991. Analogue input REG-K/4-gang, art. no. 682191. Analogue input module REG/4-gang, art. no. 682192.

Version	Art. no.	PU	PG	Info
light grey	**663594**	1/80	9	

IP65

Temperature sensor

The temperature is measured with the temperature sensor and converted into an analogue output signal of 0-10 V.
For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.

Measuring range: -30° C to +70° C linear
Output: 0 ... 10 V short-circuit-proof
External power supply:
Voltage: 24 V DC (15-30 V DC)
Power consumption: approx. 3 mA
General specifications:
Incoming cable: using PG7 screw fitting
Recommended cable: 3 x 0.25 mm²
Type of protection: IP 65
Dimensions: 58 x 35 x 64 (W x H x D)

In KNX, to be completed with: Weather station REG-K/4-gang, art. no. 682991. Analogue input REG-K/4-gang, art. no. 682191. Analogue input module REG/4-gang, art. no. 682192.

Version	Art. no.	PU	PG	Info
light grey	**663596**	1/80	9	

Time switch

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

Year time switch REG-K/4/324

Quartz-controlled four-channel year time switch. The device can be programmed manually on the device itself or on the PC using the CTS Chip Tool software. With bus coupler. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. After programming on the PC, all switching times are exported to a memory chip available as an accessory, and transmitted from this into one or more time switches.

Time functions:

- 324 non-volatile switching times for selectable daily, weekly and date commands, impulse commands
- 1x switching operation for holiday/public holidays
- 10 weekly programs for holidays and public holidays per channel
- Free formation of channel and weekday blocks
- Manual switching is possible via preselection and permanent switches
- Random program can be activated
- Operation with mains connection possible
- High reserve power
- Quarz-controlled
- Automatic changeover between summer and winter time

KNX software functions:
Switching. Dimming. Send time and date. Scene. Priority.

Operating voltage: Bus, DC 24 V
Accuracy: ≤ ±1 s/day
Reserve power: 1.5 years at full operability. Data backup in disconnected state approx. 40 years (EEPROM)
Type of protection: IP 20
Device width: 6 modules = approx. 105 mm

Accessories: CTS ChipTool software, art. no. 615034. Memory chip for year time switches, art. no. 668092.

Version	Art. no.	PU	PG	Info
light grey	**677129**	1/10	9.3	

Year time switch REG-K/4/324 DCF-77

4-channel year time switch with power supply unit and integrated DCF receiver. To be completed with the DCF-77 antenna for radio-controlled time synchronisation. Time and date can be issued on the bus. The device can be programmed manually on the device itself or on the PC using the CTS Chip Tool software. With bus coupler. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. After programming on the PC, all switching times are exported to a memory chip available as an accessory, and transmitted from this into one or more time switches.

Time functions:

- 324 non-volatile switching times for selectable daily, weekly and date commands, impulse commands
- 1x switching operation for holiday/public holidays
- 10 weekly programs for holidays and public holidays per channel
- Free formation of channel and weekday blocks
- Manual switching is possible via preselection and permanent switches
- Random program can be activated
- High reserve power
- Automatic changeover between summer and winter time
- Automatic time synchronisation with DCF possible

KNX software functions:
Switching. Dimming. Send time and date. Scene. Priority.

Operating voltage: Bus, DC 24 V
AC 230 V ±10%, 50-60 Hz for antenna
Accuracy: ≤ ±1s/day
Reserve power: 1.5 years at full operability. Data backup in disconnected state approx. 40 years (EEPROM)
Type of protection: IP 20
Device width: 6 modules = approx. 105 mm

In KNX, to be completed with: DCF-77 antenna, art. no. 668091.
Accessories: CTS ChipTool software, art. no. 615034. Memory chip for year time switches, art. no. 668092.

Version	Art. no.	PU	PG	Info
light grey	**677029**	1/10	9.3	

DCF-77 antenna

Antenna for receiving the time by radio signal. The antenna should be connected to a year time switch REG-K/4/324 DCF-77.

Type of protection: IP 65

IP65

In KNX, to be completed with: Year time switch REG-K/4/324 DCF-77, art. no. 677029.
Contents: With mounting bracket.

Version	Art. no.	PU	PG	Info
light grey	**668091**	1/20	9	

Chip tool software CTS

Software for convenient entry of the switching times for the year time switches REG-K/4/324 on a PC. With adapter for the serial interface to load the program to the memory chip.

System requirements:
IBM-compatible, 386 or higher, Windows 95, 98

In KNX, to be completed with: Year time switch REG-K/4/324, art. no. 677129. Year time switch REG-K/4/324 DCF-77, art. no. 677029.
Accessories: Memory chip for year time switches, art. no. 668092.
Contents: With adapter and a memory chip.

Version	Art. no.	PU	PG	Info
	615034	1/4	9.1	

Memory chip for year time switches

EEPROM memory chip for 324 switching times for programming the year time switch REG K/4/324. The program which is created with the chip tool software CTS is loaded into the memory chip and can then be imported into one or several year time switches.

In KNX, to be completed with: Year time switch REG-K/4/324, art. no. 677129. Year time switch REG-K/4/324 DCF-77, art. no. 677029. CTS ChipTool software, art. no. 615034.

Version	Art. no.	PU	PG	Info
	668092	1/80	9.1	

Time switch REG-S/2/42

2-channel day and week time switch. Without bus coupler, with application interface looped through at the side. Other REG-S devices can be attached to the REG bus coupler. For installation on DIN rails EN 50022-35 x 7.5 with integrated data rail.
Time functions:

- 2 channels and 42 memory slots
- Toggling between manual/automatic mode
- Daily and weekly program
- Free formation of weekday blocks
- Free formation of channel blocks
- Holiday program
- Random-check generator
- Manual changeover between summer and winter time
- Reserve power

KNX software functions:
Behaviour when ON or OFF time is reached. ON and OFF delays.

Device width: 2 modules = approx. 36 mm

In KNX, to be completed with: Bus coupler REG, art. no. 690599.

Version	Art. no.	PU	PG	Info
light grey	**670301**	1/42	9.3	

Switch actuators

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

Switch actuator, flush-mounted/ 230/10

For switching a load via make contact. For screw mounting in the size 60 installation box. With integrated bus coupler 2 and screw terminals. The device is connected to the bus with a bus connecting terminal.

KNX software functions:
Actuator functions: Switching. Staircase lighting function. Logic operation. Blocking. Status feedback. Relay operation as break contact/make contact. Behaviour on bus voltage failure. Behaviour on bus voltage recovery
Push-button functions: Switching. Dimming. Blind control. Toggling. Pulse edge evaluation. Transmitting values. Disable function.

Switch contact: 1 x make contact, floating
Nominal voltage: AC 230 V, 50-60 Hz
Nominal current: 10 A, cosφ =1; 10 A, cosφ =0.6
Capacitor load: 10 A, C ≤ 140 µF
Connected loads:
Incandescent lamps: AC 230 V, max. 2,300 W
Halogen lamps: AC 230 V, max. 2,000 W
Fluorescent lamps: 10 A, C ≤ 140 µF
AC 230 V, max. 900 W, uncompensated
AC 230 V, max. 320 W, with parallel compensation
AC 230 V, max. 1,500 W, twin-lamp circuit

In KNX, to be completed with: Flush-mounted application modules push-buttons 1- to 4-gang, multi-function push-button 4-gang with/without IR receiver, ARGUS 180 flush-mounted or blanking cover from System M, System Design.
Accessories: Protective cover for plaster, art. no. 690098.
Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
	627099	1/60	9	

Series actuator, flush-mounted/ 230/6

For independent switching of two loads via make contacts. For screw mounting in the size 60 installation box. With integrated bus coupler 2 and screw terminals. The device is connected to the bus with a bus connecting terminal.

KNX software functions:
Actuator functions: Switching. Staircase lighting function. Logic operation. Blocking. Status feedback. Relay operation as break contact/make contact. Behaviour on bus voltage failure. Behaviour on bus voltage recovery
Push-button functions: Switching. Dimming. Blind control. Toggling. Pulse edge evaluation. Transmitting values. Disable function.

Switch contact: 2 x make contacts, floating
Nominal voltage: AC 230 V, 50-60 Hz
Nominal current: 6 A, cosφ =1; 6 A, cosφ =0.6
Capacitor load: 6 A, C ≤ 4 µF
Connected loads:
Incandescent lamps: AC 230 V, max. 1000 W
Halogen lamps: AC 230 V, max. 800 W
Fluorescent lamps: 6 A, C ≤ 4 µF
AC 230 V, max. (10x58) W, uncompensated

In KNX, to be completed with: Flush-mounted application modules push-buttons 1- to 4-gang, multi-function push-button 4-gang with/without IR receiver, ARGUS 180 flush-mounted or blanking cover from System M, System Design.
Accessories: Protective cover for plaster, art. no. 690098.
Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
	627199	1/60	9	

Switch actuator, flush-mounted/ 230/16

For switching a load via a make contact. With integrated bus coupler and screw terminals. The device is connected to the bus with a bus connecting terminal. The actuator can be built into a 47 mm ceiling socket with hook or a flush-mounted switch box.

KNX software functions:
Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

Nominal voltage: AC 230 V, 50-60 Hz
Nominal current: 16 A, ohmic load
10 A, cosφ = 0.6
Nominal output
Incandescent lamps: AC 230 V, max. 2700 W
Halogen lamps: AC 230 V, max. 1700 W
Fluorescent lamps: AC 230 V, max. 1000 VA with parallel compensation
Capacitive load: AC 230 V, max. 105 µF

Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
polar white	**629993**	1/100	9	

Switch actuator REG-K/2x230/10 with manual mode

For independent switching of up to 2 loads via make contacts. The function of the switching channels is freely configurable. All switching outlets can be operated manually using push-button operation. With integrated bus coupler. For installation on DIN rails EN 50022.
Bus connection is via bus terminals, a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

KNX software functions:
Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.

Power supply:
Nominal voltage: AC 230 V, 50-60 Hz
For each switch output:
Nominal current: 10 A, cosφ = 1; 10 A, cosφ = 0.6
Incandescent lamps: AC 230 V, max. 2000 W
Halogen lamps: AC 230 V, max. 1700 W
Fluorescent lamps:
AC 230 V, max. 1800 W, uncompensated
AC 230 V, max. 1000 W with parallel compensation
Capacitive load: AC 230 V, max. 105 µF

Device width: 2.5 modules = approx. 45 mm

Note: In the ARGUS control system to control the alarm siren with flashlight, art. no. 665192.
Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649202**	1/10	9.3	

Switch actuator REG-K/2x230/16 with manual mode

For independent switching of two loads via make contacts. With integrated bus coupler and screw terminals. For installation on DIN rails EN 50022. The 230 V switch output can be operated with a manual switch.
The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates readiness for operation after the application has been loaded.

KNX software functions:
Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

Nominal voltage: AC 230 V, 50-60 Hz
For each switching contact:
Nominal current: 16 A, cosφ = 0.6
Incandescent lamps: AC 230 V, max. 3600 W
Halogen lamps: AC 230 V, max. 2500 W
Fluorescent lamps: AC 230 V, max. 2500 VA
Capacitive load: AC 230 V, 16 A, max. 200 µF
Device width: 2.5 modules = approx. 45 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**647393**	1/30	9.3	

Switch actuator REG-K/4x230/10 with manual mode

For independent switching of up to 4 loads via make contacts. The function of the switching channels is freely configurable. All switching outlets can be operated manually using push-button operation. With integrated bus coupler. For installation on DIN rails EN 50022.
Bus connection is via bus terminals, a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

KNX software functions:
Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.

Power supply:
Nominal voltage: AC 230 V, 50-60 Hz
For each switch output:
Nominal current: 10 A, cosφ = 1; 10 A, cosφ = 0.6
Incandescent lamps: AC 230 V, max. 2000 W
Halogen lamps: AC 230 V, max. 1700 W
Fluorescent lamps:
AC 230 V, max. 1800 W, uncompensated
AC 230 V, max. 1000 W with parallel compensation
Capacitive load: AC 230 V, max. 105 µF

Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649204**	1/10	9.3	

Switch actuator REG-K/4x230/16 with manual mode

For independent switching of four loads via make contacts. With integrated bus coupler 2 and screw terminals. For installation on DIN rails EN 50022. The 230 V switch output can be operated with a manual switch.
The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates readiness for operation after the application has been loaded.

KNX software functions:
Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

Nominal voltage: AC 230 V, 50-60 Hz
For each switching contact:
Nominal current: 16 A, cosφ = 0,6
Incandescent lamps: AC 230 V, max. 3600 W
Halogen lamps: AC 230 V, max. 2500 W
Fluorescent lamps: AC 230 V, max. 2500 VA
Capacitive load: AC 230 V, 16 A, max. 200 µF
Device width: 4 TE = approx. 72 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**647593**	1/10	9.3	

Switch actuator REG-K/8x230/6

For independent switching of eight loads via make contacts. With integrated bus coupler and plug-in screw terminals. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates readiness for operation after the application has been loaded.

KNX software functions:
Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

Nominal voltage: AC 230 V, 50-60 Hz
For each switching contact:
Nominal current: 6 A, cosφ = 0.6
Incandescent lamps: AC 230 V, max. 1380 W
Halogen lamps: AC 230 V, max. 1380 W
Fluorescent lamps: AC 230 V, max. 1000 VA
Capacitive load: AC 230 V, 6 A, max. 105 µF
Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**646808**	1/10	9.3	

Switch actuator REG-K/8x230/10 with manual mode

For independent switching of up to 8 loads via make contacts. The function of the switching channels is freely configurable. All switching outlets can be operated manually using push-button operation. With integrated bus coupler. For installation on DIN rails EN 50022.
Bus connection is via bus terminals, a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

KNX software functions:
Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.

Power supply:
Nominal voltage: AC 230 V, 50-60 Hz
For each switch output:
Nominal current: 10 A, cosφ = 1; 10 A, cosφ = 0.6
Incandescent lamps: AC 230 V, max. 2000 W
Halogen lamps: AC 230 V, max. 1700 W
Fluorescent lamps:
AC 230 V, max. 1800 W, uncompensated
AC 230 V, max. 1000 W with parallel compensation
Capacitive load: AC 230 V, max. 105 µF

Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649208**	1/10	9.3	

Switch actuator REG-K/8x230/16 with manual mode

For independent switching of 8 loads via make contacts. All 230 V switch outputs can be operated with manual switches. With integrated bus coupler. For installation on DIN rails EN 50022.
The device is connected to the mains via screw terminals; every second L connection is bridged internally. The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates readiness for operation after the application has been loaded.

KNX software functions:
Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

Nominal voltage: AC 230 V, 50-60 Hz
Per switch contact:
Nominal current: 16 A, cosφ =0.6
Incandescent lamps: AC 230 V, max. 3600 W
Halogen lamps: AC 230 V, max. 2500 W
Fluorescent lamps: AC 230 V, max. 2500 VA
Capacitive load: AC 230 V, 16 A, max. 200 µF
Device width: 8 modules = approx. 144 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**647893**	1/6	9.3	

Switch actuator REG-K/12x230/10 with manual mode

For independent switching of up to 12 loads via make contacts. The function of the switching channels is freely configurable. All switching outlets can be operated manually using push-button operation. With integrated bus coupler. For installation on DIN rails EN 50022.
Bus connection is via bus terminals, a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

KNX software functions:
Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.

Power supply:
Nominal voltage: AC 230 V, 50-60 Hz
External auxiliary voltage: AC 110-240 V, 50-60 Hz, max. 2 VA
For each switch output:
Nominal current: 10 A, cosφ = 1; 10 A, cosφ = 0.6
Incandescent lamps: AC 230 V, max. 2000 W
Halogen lamps: AC 230 V, max. 1700 W
Fluorescent lamps:
AC 230 V, max. 1800 W, uncompensated
AC 230 V, max. 1000 W with parallel compensation
Capacitive load: AC 230 V, max. 105 µF

Device width: 6 modules = approx. 108 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649212**	1/10	9.3	

Switch actuator REG-K/12x230/16, with manual mode

For independent switching of 12 loads via make contacts. All 230 V switch outputs can be operated with manual switches. With integrated bus coupler.
The device is connected to the mains via screw terminals; every second L connection is bridged internally. For installation on DIN rails EN50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates readiness for operation after the application has been loaded.

KNX software functions:
Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

Nominal voltage: AC 230 V, 50-60 Hz
Per switch contact:
Nominal current: 16 A, cosφ =0.6
Incandescent lamps: AC 230 V, max. 3600 W
Halogen lamps: AC 230 V, max. 2500 W
Fluorescent lamps: AC 230 V, max. 2500 VA
Capacitive load: AC 230 V, 16 A, max. 200 µF
Device width: 12 modules = approx. 216 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**648493**	1/6	9.3	

Blind/switch actuators

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

Blind/switch actuator REG-K/8x/16x/10 with manual mode

For independent control of up to 8 blind/roller shutter drives or for switching up to 16 loads via make contacts. The function of the blind or switching channels is freely configurable. All blind/switch outputs can be operated manually using push-buttons. With integrated bus coupling unit. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

KNX software functions:
Blind functions: Blind type. Running time. Idle time. Step interval. Weather alarm. 8-bit positioning for height and slats. Scenes. Status and feedback function.
Switch actuator functions: Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.

Power supply:
Nominal voltage: AC 230 V, 50-60 Hz
External auxiliary voltage: AC 110-240 V, 50-60 Hz, max. 2 VA
For each blind output:
Nominal current:10 A, cosφ = 0.6
Motor load: AC 230 V, max. 1000 W
For each switch output:
Nominal current: 10 A, cosφ = 1; 10 A, cosφ = 0.6
Incandescent lamps: AC 230 V, max. 2000 W
Halogen lamps: AC 230 V, max. 1700 W
Fluorescent lamps:
AC 230 V, max. 1800 W, uncompensated
AC 230 V, max. 1000 W with parallel compensation
Capacitive load: AC 230 V, max. 105 µF

Device width: 8 modules = approx. 144 mm

Note: The blind actuator/switch actuator cannot be used in conjunction with the weather-dependent automatic functions of the weather combi-sensor/DCF77 art. no. 663692. If you require these functions then use the blind actuators art. no. 6498...
Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649908**	1/6	9.3	

Blind / switch actuator REG-K/ 12x/24x/10 with manual mode

For independent control of up to 12 blind/roller shutter drives or for switching up to 24 loads via make contacts. The function of the blind or switching channels is freely configurable. All blind/switch outputs can be operated manually using push-buttons. With integrated bus coupler. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

KNX software functions:
Blind functions: Blind type. Running time. Idle time. Step interval. Weather alarm. 8-bit positioning for height and slats. Scenes. Status and feedback function.
Switch actuator functions: Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.

Power supply:
Nominal voltage: AC 230 V, 50-60 Hz
External auxiliary voltage: AC 110-240 V, 50-60 Hz, max. 2 VA
For each blind output:
Nominal current: 10 A, cosφ = 0.6
Motor load: AC 230 V, max. 1000 W
For each switch output:
Nominal current: 10 A, cosφ = 1; 10 A, cosφ = 0.6
Incandescent lamps: AC 230 V, max. 2000 W
Halogen lamps: AC 230 V, max. 1700 W
Fluorescent lamps:
AC 230 V, max. 1800 W, uncompensated
AC 230 V, max. 1000 W parallel-compensated
Capacitive load: AC 230 V, max. 105 µF

Device width: 12 TE = approx. 216 mm

Note: The blind actuator/switch actuator cannot be used in conjunction with the weather-dependent automatic functions of the weather combi-sensor/DCF77 art. no. 663692. If you require these functions then use the blind actuators art. no. 6498...
Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649912**	1/6	9.3	

Blind actuators

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

Blind actuator, flush-mounted/ 230/6

To control a blind/roller shutter drive. For screw mounting in the size 60 installation box. With integrated bus coupler 2 and screw terminals. The device is connected to the bus with a bus connecting terminal.

KNX software functions:
Actuator functions: Blind with slat adjustment, roller shutters without slat adjustment, safety function
Push-button functions: Switching, dimming, blind control, toggling, pulse edges, send value, disable function

Switch contact: Changeover contact in series with make contact, floating
Nominal voltage: AC 230 V, 50-60 Hz
Nominal current: 6 A, cosφ =1; 6 A, cosφ =0.6
Motor load: AC 230 V, 500 W/VA

In KNX, to be completed with: Flush-mounted application modules push-buttons 1- to 4-gang, multi-function push-button 4-gang with/without IR receiver, ARGUS 180 flush-mounted or blanking cover from System M, System Design.
Accessories: Protective cover for plaster, art. no. 690098.
Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
	627299	1/60	9	

Blind actuator REG-K/2x/10 with manual mode

For independent control of 2 blind/roller shutter drives. The function of the blind channels is freely configurable. All blind outputs can be operated manually using push-button operation. With integrated bus coupling unit. For installation onto DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

KNX software functions:
Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.

For each blind output:
Nominal voltage: AC 230 V, 50-60 Hz
Nominal current: 10 A, cosφ = 0.6
Motor load: AC 230 V, max. 1000 W
Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649802**	1/10	9.3	

Blind actuator REG-K/4x24/6 with manual mode

For independent control of 4 blind/roller shutter drives. The function of the blind channels is freely configurable. All blind outputs can be operated manually using push-button operation. With integrated bus coupler. For installation onto DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

KNX software functions:
Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.

For each blind output:
Nominal voltage: DC 24 V ±10 %
Nominal current: 6 A
Load types: 24 V direct current drives
Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal and cable cover.
Availability: Available June 2007.

Version	Art. no.	PU	PG	Info
light grey	**648704**	1/10	9.3	

Blind actuator REG-K/4x/6

For independent control of 4 blind/roller shutter drives. With integrated bus coupler and plug-in screw terminals. For installation onto DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates readiness for operation after the application has been loaded.

KNX software functions:
Blind functions: Blind type. Running time. Idle time. Step interval. Weather alarms. 8-bit positioning for height and slats. Scenes. Automatic function. Differentiated status and feedback functions.

For each blind output:
Nominal voltage: AC 230 V, 50-60 Hz
Nominal current: 6 A, cosφ = 0.6
Motor load: AC 230 V, max. 1000 W
Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**646704**	1/10	9.3	

Roller shutter actuator REG-K/4x/10 with manual mode

For independent control of 4 roller shutter drives. The function of the roller shutter channels is freely configurable. All roller shutter outputs can be operated manually using push-button operation. With integrated bus coupler. For installation onto DIN rails EN 50022.
Bus connection is via bus terminals, a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

KNX software functions:
Roller shutter functions: Running time. Idle time. Differentiated disable functions and weather alarms. 8-bit positioning for height. Scenes. Manual/automatic function. Differentiated status and status feedback functions.

For each roller shutter output:
Nominal voltage: AC 230 V, 50-60 Hz
Nominal current: 10 A, cosφ = 0.6
Motor load: AC 230 V, max. 1000 W
Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649704**	1/10	9.3	

Blind actuator REG-K/4x/10 with manual mode

For independent control of 4 blind/roller shutter drives. The functions of the blind channels is freely configurable. All blind outputs can be operated manually using push-button operation. With integrated bus coupling unit. For installation onto DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

KNX software functions:
Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.

For each blind output:
Nominal voltage: AC 230 V, 50-60 Hz
Nominal current: 10 A, cosφ = 0.6
Motor load: AC 230 V, max. 1000 W
Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649804**	1/10	9.3	

Blind actuator REG-K/8x/10 with manual mode

For independent control of 8 blind/roller shutter drives. The functions of the blind channels is freely configurable. All blind outputs can be operated manually using push-buttons. With integrated bus coupler. For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

KNX software functions:
Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.

For each blind output:
Nominal voltage: AC 230 V, 50-60 Hz
Nominal current: 10 A, cosφ = 0.6
Motor load: AC 230 V, max. 1000 W
External auxiliary voltage: AC 110-240 V, 50-60 Hz, max. 2 VA
Device width: 8 modules = approx. 144 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649808**	1/6	9.3	

Multiple control relay insert for roller shutters

5 A, AC 250 V

Suitable for a size 60 flush-mounted box.
With a multiple control relay, it is possible to control 2 motors locally by manual operation or centrally.
The multiple control relays can be cascaded.

To be completed with: Blanking cover, art. no. System M 3916.., 3918.., 3917.., System Basis 3920.., System Design 3919.., OCTO-COLOR 3926...

Technical Information: Multiple control relay insert for roller shutters (⇒ p. 470)

Version	Art. no.	PU	PG	Info
	576399	1/24	8	

Multiple control relay for roller shutters, flush-mounted

6 A, AC 250 V

Suitable for a size 60 flush-mounted box. Flat 22 mm design. For local control using push-buttons, installation in a deep flush-mounted box.
For controlling up to 2 roller shutter motors locally, in groups or centrally. With separation of load and control circuit, as well as forced locking in both directions of movement.
Motors are controlled individually using a roller shutter rocker switch and centrally using the blind time switches or blind push-buttons of the Merten blind control system.

Mains voltage: AC 230 V, 50 Hz ±10 %
Control voltage: AC 230 V ±10 %
Power consumption: 10 mA in relay operation
Switching voltage: max. AC 250 V
Switching current: max. 6 A
Temperature range: 0 -60 °C
Terminals: max. 1.5 mm²
Dimensions: 22x49x52 mm (HxWxD)
Installation: (deep) flush-mounted box

To be completed with: Blanking cover, art. no. System M 3916.., 3918.., 3917.., System Basis 3920.., System Design 3919.., OCTO-COLOR 3926...

Technical Information: Multiple control relay for roller shutters, flush-mounted (⇒ p. 471)

Version	Art. no.	PU	PG	Info
	576398	1/100	8	

Multiple control relay for roller shutters REG

2 A, AC 250 V

For installation on DIN rails.
For controlling up to 2 roller shutter motors locally, in groups or centrally. With separation of load and control circuit, as well as forced locking in both directions of movement.
Motors are controlled individually using a roller shutter rocker switch and centrally using the blind time switches or blind push-buttons of the Merten blind control system.

Mains voltage: AC 230 V, 50 Hz ±10 %
Power consumption: 10 mA in relay operation
Switching voltage: max. AC 250 V
Switching current: max. 2 A
Temperature range: 0 -60 °C
Terminals: max. 1.5 mm²
Device width: 2 modules = approx. 36 mm

Technical Information: Multiple control relay for roller shutters REG (⇒ p. 472)

Version	Art. no.	PU	PG	Info
	576397	1/40	8	

Dimming actuators/control units

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

Dimming actuator REG-K/2x230/300 W

AC 230 V, 50 Hz

For switching and dimming incandescent lamps and dimmable, wound transformers (ohmic / inductive load).
(Phase control)
With integral bus coupler, plug-in screw terminals, short-circuit and overload protection and soft start function to protect the lamps. For installation onto DIN rails EN 50022.
Bus connection is via bus terminals, a data rail is not necessary. Readiness for operation is indicated by a green LED after the application has been loaded, and an overload of one channel or both channels is indicated by a flashing light.

KNX software functions:
Starting behaviour, memory function, dimming speed, switching off by relative dimming, configurable minimum brightness and behaviour on bus voltage failure/recovery are programmable.

Nominal voltage: AC 230 V, 50 Hz
Nominal power:
per channel: max. 300 W/VA
per channel: max. 300 W/VA
Minimum load: 25 W/VA
Short-circuit protection: via fuse
Device width: 6 modules = approx. 108 mm

Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**646630**	1/10	9.3	

Universal dimming actuator REG-K/230/500 W

AC 230 V, 50-60 Hz

For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.
(Phase control and phase alignment)
With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function. For installation onto DIN rails EN 50022.
The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads cannot be connected.
Bus connection is via bus terminals, a data rail is not necessary.

KNX software functions:
Dimming operation via EIB, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback, behaviour on bus voltage recovery.

Nominal voltage: AC 220 - 230 V, 50/60 Hz
Nominal power/channel: max. 500 W/VA
20 W minimum load (ohmic)
50 VA minimum load (ohmic/inductive/capacitive)
Input (extension unit operation): AC 230 V, 50/60 Hz (same phase as the dimming channel)
Device width: 4 modules = approx. 72 mm

Extension unit operation: With mechanical push-buttons (make contact). With extension insert, art. no. 573999, extension TELE insert, art. no. 573998.
Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649350**	1/10	9.3	

Universal dimming actuator REG-K/2x230/1000 W

AC 230 V, 50-60 Hz

For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.

(Phase control and phase alignment)

With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function. For installation onto DIN rails EN 50022.

The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads cannot be connected.

Bus connection is via bus terminals, a data rail is not necessary.

KNX software functions:

Dimming operation via EIB, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback, behaviour on bus voltage recovery.

Nominal voltage: AC 220 - 230 V, 50/60 Hz
Nominal power/channel: max. 1000 W/VA
20 W minimum load (ohmic)
50 VA minimum load (ohmic/inductive/capacitive)
Input (extension unit operation): AC 230 V, 50/60 Hz (same phase as the dimming channel)
Device width: 4 modules = approx. 72 mm

- **Extension unit operation:** With mechanical push-buttons (make contact). With extension insert, art. no. 573999, extension TELE insert, art. no. 573998.
- **Contents:** With bus connecting terminal and cable cover.
  Availability: Available 2nd quarter 2007

Version	Art. no.	PU	PG	Info
light grey	**649310**	1/6	9.3	

Universal dimming actuator REG-K/2x230/300 W

AC 230 V, 50-60 Hz

For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.

(Phase control and phase alignment)

With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function. For installation onto DIN rails EN 50022.

The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads cannot be connected.

Bus connection is via bus terminals, a data rail is not necessary.

KNX software functions:

Dimming operation via EIB, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback, behaviour on bus voltage recovery.

Nominal voltage: AC 220 - 230 V, 50/60 Hz
Nominal power/channel: max. 300 W/VA
20 W minimum load (ohmic)
50 W minimum load (ohmic/inductive/capacitive)
Input (extension unit operation): AC 230 V, 50/60 Hz (same phase as the dimming channels)
Device width: 4 modules = approx. 72 mm

- **Extension unit operation:** With mechanical push-buttons (make contact). With extension insert, art. no. 573999, extension TELE insert, art. no. 573998.
- **Contents:** With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649330**	1/10	9.3	

Universal dimming actuator REG-K/4x230/150 W

AC 230 V, 50-60 Hz

For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.
(Phase control and phase alignment)
With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function. For installation onto DIN rails EN 50022.
The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads cannot be connected.
Bus connection is via bus terminals, a data rail is not necessary.

KNX software functions:
Dimming operation via EIB, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback, behaviour on bus voltage recovery.

Nominal voltage: AC 220 - 230 V, 50/60 Hz
Nominal power/channel: max. 150 W/VA
20 W minimum load (ohmic)
50 VA minimum load (ohmic/inductive/capacitive)
Input (extension unit operation): AC 230 V, 50/60 Hz (same phase as the dimming channels)
Device width: 6 modules = approx. 105 mm

Extension unit operation: With mechanical push-buttons (make contact). With extension insert, art. no. 573999, extension TELE insert, art. no. 573998.
Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**649315**	1/10	9.3	

Control unit 0-10 V REG-K/1-gang with manual mode

For connecting devices with 0-10 V interface to KNX. With integrated bus coupler and screw terminals (230 V) or plug-in screw terminals (0-10 V). The 230 V switch output can be operated with a manual switch. For installation onto DIN rails EN 50022.
Bus connection is via bus terminals, a data rail is not necessary. A green LED indicates that the device is ready for operation once the application has been loaded.

KNX software functions:
Different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback, behaviour on bus voltage recovery.

Switch contact: for switching the electronic ballasts/transformers
Switching voltage: AC 230 V
Switching current:16 A, cosφ = 0.6
Switching capacity: AC 230 V, 3600 W, cosφ = 1
Capacitive load: AC 230 V, 3600 W, 200 µF
Halogen lamps: AC 230 V, 2500 W
Fluorescent lamps:
AC 230 V, max. 5000 W, uncompensated
AC 230 V, max. 2500 VA, with parallel compensation
0-10 V interface: for dimming the electronic ballasts/transformers
Voltage range: DC 0-10 V
Device width: 2.5 TE = approx. 45 mm

Contents: With bus connecting terminal and cable cover.
Availability: Available July 2007.

Version	Art. no.	PU	PG	Info
light grey	**647091**	1/1	9.3	

Control unit 0-10 V REG-K/3-gang with manual mode

For connecting devices with 0-10 V interface toKNX. With integrated bus coupler and screw terminals (230 V) or plug-in screw terminals (0-10 V). Each individual 230 V switch output can be operated manually with a manual switch. For installation onto DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.

KNX software functions:
Different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback, behaviour on bus voltage recovery.

Switch contact: for switching the electronic ballasts/transformers
Switching voltage: AC 230 V
Switching current:16 A, cosφ = 0.6
Switching capacity: AC 230 V, 3600 W, cosφ = 1
Capacitive load: AC 230 V, 3600 W, 200 µF
Halogen lamps: AC 230 V, 2500 W
Fluorescent lamps:
AC 230 V, max. 5000 W, uncompensated
AC 230 V, max. 2500 VA, with parallel compensation
0-10 V interface: for dimming the electronic ballasts/transformers
Voltage range: DC 0-10 V
Device width: 4 TE = approx. 72 mm

Contents: With bus connecting terminal and cable cover.
Availability: Available July 2007.

Version	Art. no.	PU	PG	Info
light grey	**646991**	1/1	9.3	

INSTABUS DALI gateway REG-K/1/16/64

The DALI gateway connects the KNX with digital electronic ballasts, which are equipped with a DALI interface. The gateway is the DALI master and power supply for the electronic ballasts. It supports the switching and dimming of up to 64 electronic ballasts in 16 groups and the control of 16 lightscenes.
Brightness values or error messages in the DALI devices can be sent to the EIB and visualised on display units. The DALI is commissioned and configured with the integrated display and operator buttons. They also permit the user to change group assignments and scene settings at any time without software. With 2 inputs, e.g. for the connection of push-buttons.
For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. The network and the DALI cable as well as the switch inputs are connected via screw terminals on the device.

Supply voltage: AC 110-240 V, 50-60 Hz
Inputs: 2, passive DC 9-36 V or AC 9-24 V
Outputs: DALI D+, D in line with DALI specification DC 16-18 V, 150 mA, short-circuit-proof
Connecting cable: 1.5 - 2.5 mm²
Type of protection: IP 20
Device width: 6 modules = approx. 108 mm

Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
	680129	1/20	9.3	

Other actuators

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

Info display, flush-mounted

Application module for System M.
LC display with max. 4 x 16 characters and acoustic signalling device. The info display is used to indicate freely-programmable texts and values and to control functions.
Functions and texts can be allocated on up to 12 pages with a maximum of 4 lines. 12 lines of alarm signals can also be allocated. Automatic allocation of alarm signal priority which can be changed manually.
Signals that are not shown are selected using two buttons on the display. The functions of two additional buttons are allocated to the display line.

KNX software functions:
Switching, dimming, blind control, temperature control, continuous status control, ASCII text provision, 8-bit scene retrieval, priority control, display of texts, values, date, time, date+time

Display: Illuminated LCD
4-line (16 characters) or
2-line (8 characters) or
1-line (4 characters)
Operating elements: 4 buttons
Signalling device: 2 signal tones
Alarm signals: max. 12

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099.
Note: The display tool software V2.0, art. no. 615046, for programming the flush-mounted info display is available on the Internet or on the Merten info CD.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**629844**	1/100	9	
polar white, glossy	**629819**	1/100	9	
active white, glossy	**629825**	1/100	9	
Thermoplastic classy matt				
white	**629444**	1/100	9	
polar white	**629419**	1/100	9	
anthracite	**629414**	1/100	9	
aluminium	**629460**	1/100	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Info display, flush-mounted

Application module for System Design.
LC display with max. 4 x 16 characters and acoustic signalling device. The info display is used to indicate freely-programmable texts and values and to control functions.
Functions and texts can be allocated on up to 12 pages with a maximum of 4 lines. 12 lines of alarm signals can also be allocated. Automatic allocation of alarm signal priority which can be changed manually.
Signals that are not shown are selected using two buttons on the display. The functions of two additional buttons are allocated to the display line.

KNX software functions:
Switching, dimming, blind control, temperature control, continuous status control, ASCII text provision, 8-bit scene retrieval, priority control, display of texts, values, date, time, date+time

Display: Illuminated LCD
4-line (16 characters) or
2-line (8 characters) or
1-line (4 characters)
Operating elements: 4 buttons
Signalling device: 2 signal tones
Alarm signals: max. 12

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099.
Note: The display tool software V2.0, art. no. 615046, for programming the flush-mounted info display is available on the Internet or on the Merten info CD.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**629544**	1/100	9	
polar white	**629519**	1/100	9	
aluminium	**629560**	1/100	9	
metallic				
varnished stainless steel	**629546**	1/100	9	

Analogue actuator REG-K/4-gang

The output channels can be parameterised for different current and voltage signals to control different analogue variables (e.g. servomotors). The actuator has four analogue outputs. For use in connection with the analogue actuator module REG/4-gang, 8 analogue outputs are provided.
Connections are made using the sub-bus.
For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.
With continuity checking of the current outputs.

Auxiliary voltage: AC 24 V (+/-10 %)
Analogue outputs: 4
Current signals: 0 ... 20 mA, 4 ... 20 mA
Voltage signals: 0 ... 1 V, 0.. 10 V
Continuity checking: 4 ... 20 mA
Outputs: DC 24 V, 100 mA (total)
Device width: 4 modules = approx. 72 mm

In KNX, to be completed with: Power supply REG, AC 24 V / 1 A, art. no. 663529.
Accessories: Analogue actuator module REG/4-gang, art. no. 682292.
Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**682291**	1/25	9.3	

Analogue actuator module REG/ 4-gang

Extension module to extend analogue actuator REG-K/4-gang from 4 to 8 analogue outputs. Connections are made using the sub-bus. The output channels can be independently parameterised for different current and voltage signals to control different control values (e.g. servomotors).
For installation on DIN rails EN 50022.

Auxiliary voltage: AC 24 V (+/-10 %)
Analogue outputs: 4
Current signals: 0 ... 20 mA, 4 ... 20 mA
Voltage signals: 0 ... 1 V, 0.. 10 V (DC)
Continuity checking: 4 ... 20 mA
Outputs: DC 24 V, 100 mA (total)
Device width: 4 modules = approx. 72 mm

In KNX, to be completed with: Analogue actuator REG-K/4-gang, art. no. 682291.
Contents: With sub-bus jumper.

Version	Art. no.	PU	PG	Info
light grey	**682292**	1/25	9.3	

Panel control devices

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

IP touch panel 10"

The IP touch panel 10" is used for the visualisation and control of current building statuses and functions. It is operated interactively on the touch-sensitive TFT display.
Windows CE is installed as the operating system. With this standard, solutions such as data management, web functions and client/server and network functions can be configured quickly and easily. Via a browser, it is also possible, for example, to use Merten@home with the IC 1 EIB Internet Controller.
Using the optional visualisation software, the IP touch panel 10" can be programmed for the visualised, interactive control of building functions.
The IP touch panel 10" has LAN (10/100 Mbit/s), and a RS 232 and USB connection. The USB connection is in the front behind the frame. A plug-in INSTABUS module can be used to connect the IP touch panel 10" to the KNX.
Due to its flat design in a flush-mounted housing, its uses range from home applications to purpose-built applications.

KNX software functions:
Configuration using the "TP VISU configuration tool".

Display size: 10.4" (24.4 cm)
Resolution: 800 x 600 pixels, SVGA
Display type: TFT, resistive touch
Colours shown: > 65000
Mains voltage: DC 24 V
Power consumption: < 20 W
RAM: 128 MB
Data buffering: via battery
Ambient operating temperature: 5 °C bis 40 °C
Type of protection: IP 20
Frame dimensions: 224.7x277.5x12 mm (HxWxD)
Opening: 157.4x210.2 mm (HxW)

To be completed with: Power supply REG, DC 24 V/1 A, art. no. 693004.
Accessories: INSTABUS EIB module for IP touch panel art. no. 683093. Design frame for IP touch panel 10" art. no. 489960. Flush-mounted mounting box for IP touch panel 10" art. no. 683091. Cavity wall mounting box for IP touch panel 10" art. no. 683092.
Note: The TP VISU configuration tool is available on the Internet or on the Merten info CD.
Contents: With Design M-Plan frames, aluminium.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
aluminium glossy	**683090**	1/2	9	

INSTABUS module for IP touch panel

Plug-in module for connecting the IP touch panel to the KNX.

In KNX, to be completed with: IP touch panel 10" art. no. 683090.

Version	Art. no.	PU	PG	Info
	683093	1/52	9	

Real glass frame for IP touch panel 10"

For M-PLAN.
Decorative frame for the IP touch panel 10".

Dimensions: 228.6x281.4x13.5 mm (HxWxD)

In KNX, to be completed with: IP touch panel 10" art. no. 683090.

Version	Art. no.	PU	PG	Info
glass				
diamond	**489960**	1/5	1.1	

Flush-mounted mounting box for IP touch panel 10"

For flush-mounted installation of the IP touch panel 10".

Dimensions: 208x238x68 mm (HxWxD)

In KNX, to be completed with: IP touch panel 10" art. no. 683090.

Version	Art. no.	PU	PG	Info
	683091	1/8	9	

Cavity wall mounting box for IP touch panel 10"

For installing the IP touch panel 10" into a cavity wall.

Dimensions: 205x235x72 mm (HxWxD)

In KNX, to be completed with: IP touch panel 10" art. no. 683090.

Version	Art. no.	PU	PG	Info
	683092	1/8	9	

Universal I/O panel control REG-K/32x24

Input/output module with integrated bus coupler and 2 plug-in strips, each with 16 screw terminals for controlling 32 push-buttons or signal lamps in operating or display panels for example. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. The 32 channels can be configured as either inputs or outputs.

KNX software functions:
Outputs: Switching. Inverted switching. Flashing.
Inputs: Pulse edges. Dimming. Blinds. Send value.

External power supply: DC 12/24 V, permitted DC 10 ... 30 V
Power consumption: max. 2.8 A at max. load
Inputs/outputs: 32 freely parameterisable as input/output
Cable length: ≤ 10 m
Inputs: DC 24 V, scanning voltage
Outputs: DC 24 V, supply voltage
Output current: 80 mA per output, 700 mA per group of 8, 2.8 A per device
Load type: ohmic
Safety: short-circuit-proof, overload protection, reverse voltage protection
Device width: 4 modules = approx. 72 mm

Accessories: Power supply REG, DC 24 V/0.4 A, art. no. 693003. Power supply REG, DC 24 V/1 A, art. no. 693004.
Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
light grey	**675201**	1/30	9.3	

Panel control REG-K/12x24

Output module with integrated bus coupler and plug-in screw terminals to control 12 signal lamps or relays. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.
The connected signal lamps or loads can be checked via a separate lamp test terminal.

KNX software functions:
Switching loads. Reading in the status. Flashing.

External power supply: Nominal DC 24 V, SELV in line with VDE 0551
min. DC 12 V, max. DC 36 V
Total current: max. 2 A for all outputs
Per output: for ohmic, inductive and capacitive loads
Output current: 160 mA, short-circuit-proof, max. 400 mA
Device width: 4 modules = approx. 72 mm

Accessories: Power supply REG, DC 24 V/0.4 A, art. no. 693003. Power supply REG, DC 24 V/1 A, art. no. 693004.
Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**675001**	1/30	9.3	

Panel control REG-K/8-4x24

Input/output module with integrated bus coupler and plug-in screw terminals to control eight push-buttons and four signal lamps or relays. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.
The connected signal lamps or loads can be checked via a separate lamp test terminal.

KNX software functions:
The inputs can be used in pairs to control switch actuators. Can also be programmed as eight individual switches and to control scenes.

External power supply: Nominal DC 24 V, SELV in line with VDE 0551
min. DC 12 V, max. DC 36 V
Total current: max. 1.6 A for all outputs
Per output: for ohmic, inductive and capacitive load
Output current: max. 400 mA, short-circuit-proof
Per input: max. 50 m cable length for cable with shielding.
Device width: 4 modules = approx. 72 mm

Accessories: Power supply REG, DC 24 V/0.4 A, art. no. 693003. Power supply REG, DC 24 V/1 A, art. no. 693004.
Contents: With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**675101**	1/30	9.3	

Flush-mounted housing with control electronics, power supply unit and bus coupler

The control electronics with bus coupler are used for communicating between the front plates and the KNX. Various front plates can be installed in the housing. Free fields are covered with the cover plate. A ribbon cable connects the front plates with the control electronics.
The maximum configuration comprises up to 160 LEDs or 60 push-buttons with one LED each. With integrated bus coupler. AC 230 V mains voltage is the required power supply.

KNX software functions:
Parameterisation using panel programming software EIB TAB 2 with the following capabilities:

- Switching/toggling/push-buttons
- Dimming
- Blinds
- Valuator (8 bit, 16 bit etc.)
- Internal linking capabilities for switch status displays
- Sending of multiple (different) telegrams with a single press of a button

Mains voltage: AC 230 V
Outer dimensions:
For 2 front plates: 320x320 mm (HxW)
Opening: 310x310x93 mm (HxWxD)
For 3 front plates: 445x320 mm (HxW)
Opening: 435x310x93 mm (HxWxD)
For 4 front plates: 570x320 mm (HxW)
Opening: 560x310x93 mm (HxWxD)

In KNX, to be completed with: Front plate push-button/ display, module TL 15, art. no. 671490. Front plate LED display, module L 40, art. no. 671590. Cover plate, art. no. 671390.

Note: The panel programming software EIB TAB 2, art. no. 615901, is available on the Internet or on the Merten info CD.

Version	Art. no.	PU	PG	Info
for 2 front plates	**672092**	1/2	9	
for 3 front plates	**672093**	1/1	9	
for 4 front plates	**672094**	1/1	9	

Surface-mounted housing with control electronics, power supply unit and bus coupler

The control electronics with bus coupler are used for communicating between the front plates and the KNX. Various front plates can be installed in the housing. Free fields are covered with the cover plate. A ribbon cable connects the front plates with the control electronics.
The maximum configuration comprises up to 160 LEDs or 60 push-buttons with one LED each. With integrated bus coupler. AC 230 V mains voltage is the required power supply.

KNX software functions:
Parameterisation using panel programming software EIB TAB 2 with the following capabilities:

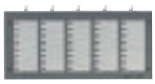
- Switching/toggling/push-buttons
- Dimming
- Blinds
- Valuator (8 bit, 16 bit etc.)
- Internal linking capabilities for switch status displays
- Sending of multiple (different) telegrams with a single press of a button

Mains voltage: AC 230 V
Outer dimensions:
F**or 2 front plates:** 320x320x93 mm (HxWxD)
For 3 front plates: 445x320x93 mm (HxWxD)
For 4 front plates: 570x320x93 mm (HxWxD)

In KNX, to be completed with: Front plate push-button/ display, module TL 15, art. no. 671490. Front plate LED display, module L 40, art. no. 671590. Cover plate, art. no. 671390.

Note: The panel programming software EIB TAB 2, art. no. 615901, is available on the Internet or on the Merten info CD.

Version	Art. no.	PU	PG	Info
for 2 front plates	**673092**	1/2	9	
for 3 front plates	**673093**	1/1	9	
for 4 front plates	**673094**	1/1	9	



Front plate LED display, module L 40

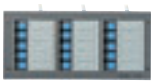
The front plate with 40 LEDs acts as a signal panel and shows binary states of the KNX.
Connection via ribbon cable to surface-/flush-mounted housing with control electronics or control module REG with power supply REG, DC 5 V/ 2 A.

In addition to the LEDs, the front plate can also be individually labelled.
Dimensions: H 124.5 x W 270 mm.

In KNX, to be completed with: Flush-mounted housing with control electronics, art. no. 6720.. or surface-mounted housing with control electronics, art. no. 6730..

Contents: With a ribbon cable.

Version	Art. no.	PU	PG	Info
L 40 module	**671590**	1/10	9	



Front plate push-button/display, module TL 15

The front plate with 15 push-buttons and 15 LEDs is used as a signal and control panel for controlling the various bus devices such as switch, dimming and blind actuators. Several bus devices can be controlled simultaneously using a single push-button.
Connection via ribbon cable to surface-/flush-mounted housing with control electronics or control module REG with power supply REG, DC 5 V/ 2 A.

In addition to the push-buttons with LED, the front plate can also be individually labelled.
Dimensions: H 124.5 x W 270 mm.

In KNX, to be completed with: Flush-mounted housing with control electronics, art. no. 6720.. or surface-mounted housing with control electronics, art. no. 6730..
Contents: With a ribbon cable.

Version	Art. no.	PU	PG	Info
TL 15 module	**671490**	1/10	9	

Cover plate

Made from grey PVC. For covering unused fields in the surface-/flush-mounted housing with control electronics.

Dimensions: H 124.5 x W 270 mm.

In KNX, to be completed with: Flush-mounted housing with control electronics, art. no. 6720.. or surface-mounted housing with control electronics, art. no. 6730..

Version	Art. no.	PU	PG	Info
grey	**671390**	1/10	9	

LCD mini-panel MT 701 V2.0

Current building states can be centrally controlled and functions influenced via the LCD mini-panel. The LCD mini-panel is ideal for private and office use thanks to its compact, flat design (213 mm x 125 mm) and functional scope.
An LCD graphic display capable of displaying up to eight rows and 16 different states at the same time is used as the display medium. It is operated interactively via a touch-sensitive keyboard.
The user menu is freely programmable, thus permitting the creation of function groups specifically adapted to the building and resulting in a clear display of the various applications. Detailed functions can be displayed and operated using the sub-menus. When planning the LCD mini-panel, the menus and submenus are compiled in line with requirements and assigned to the various EIB functions. Standard functions can be planned, such as: switching, dimming, blind control and display of measured values. Limit values can also be created.
Bus processes can be linked in order to group KNX actions and the result can be displayed.

KNX software functions:
Parameterisation using panel programming software EIB TAB 2 or ETS tool for MT 701 V2.0.

Mains voltage: AC 230 V
Dimensions: 125x213 mm (HxW)
Opening: 121.5x209 mm (HxW)

In KNX, to be completed with: Flush mounting box for mini-panel, art. no. 682591.
Accessories: Design frame for mini-panel, art. no. 682592/93.
Note: The panel programming software EIB TAB 2, art. no. 615901 and ETS tool for MT 701 V2.0, art. no. 615047 are available over the Internet or from the Merten info CD.

Version	Art. no.	PU	PG	Info
MT 701 module	**682590**	1/6	9	

Flush mounting box for mini-panel

For flush-mounted and cavity wall installation of the mini-panels MT 701 V2.0.

In KNX, to be completed with: Mini-panel MT 701, art. no. 682590.

Version	Art. no.	PU	PG	Info
black	**682591**	1/6	9	

Design frame for mini-panel

Decorative frame for the mini-panel MT 701 V2.0.

In KNX, to be completed with: Mini-panel MT 701, art. no. 682590.

Version	Art. no.	PU	PG	Info
polar white	**682592**	1/10	9	
aluminium	**682593**	1/10	9	

Panel programming software EIB TAB 2

Programming software for surface/flush-mounted housing with control electronics and LCD mini-panel MT 701 V2.0.

In KNX, to be completed with: Flush-mounted housing with control electronics, art. no. 6720.. or surface-mounted housing with control electronics, art. no. 6730.. Mini-panel MT 701, art. no. 682590.

Price on request.

Note: The software is available on the Internet or on the Merten info CD.

Version	Art. no.	PU	PG	Info
	615901	1/1	9.9	

ETS tool for MT 701 V2.0

Programming software for the ETS for parameterising the LCD mini-panel MT 701 V2.0.

In KNX, to be completed with: Mini-panel MT 701, art. no. 682590.

Price on request.

Note: The software is available on the Internet or on the Merten info CD.

Version	Art. no.	PU	PG	Info
	615047	1/1	9	

Devices for individual room temperature control

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

Multi-function push-button, 2-gang with room temperature control unit

Application module for System M.
Convenient control unit with 4 operating buttons, operating and status display and labelling field.
The operating display can also be used as an orientation light.
With room temperature control unit and display.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day, display mode, time, switching times and brightness.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

KNX software functions:
Functions of the multi-function push-button:
Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, alarm functions, .the cyclic reading of external temperature values, fan control.
Functions of the room temperature control unit:
Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
Output: Continuous in the range 0..100% or switching ON/OFF
Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs

Operating modes: comfort, comfort extension, standby, night economy, frost/heat protection
Operation: Menu

In KNX, to be completed with: Flush-mounted module for multi-function push-button with room temperature control unit, art. no. 623299.
Accessories: Labelling software, art. no. 615022. Protective hood for plaster, System M, art. no. 627591... Fan Coil actuator REG-K Art.-Nr. 645093.

Note: If you already have the labelling software, you can download the form for the multi-function push-button at www.merten.com. Use to label conventional foils (max. thickness 0.1 mm). For each device only one flat size 60 mounting box and one flush-mounted module are required.
Contents: Screw for protection against dismantling.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**627344**	1/17	9	
polar white, glossy	**627319**	1/17	9	
active white, glossy	**627325**	1/17	9	
Thermoplastic classy matt				
white	**623244**	1/17	9	
polar white	**623219**	1/17	9	
anthracite	**623214**	1/17	9	
aluminium	**623260**	1/17	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Multi-function push-button, 4-gang with room temperature control unit

Application module for M-PLAN.
Convenient control unit with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light. With room temperature control unit and display. With integrated piezoelectric buzzer to display alarm states and IR receiver. All functions of the respective buttons can be controlled via IR remote control Distance.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day, display mode, time, switching times and brightness. The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

KNX software functions:

Functions of the multi-function push-button:
Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, alarm functions, .the cyclic reading of external temperature values, fan control.

Functions of the room temperature control unit:
Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
Output: Continuous in the range 0..100% or switching ON/OFF
Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs

Operating modes: comfort, comfort extension, standby, night economy, frost/heat protection
Operation: Menu

In KNX, to be completed with: Flush-mounted module for multi-function push-button with room temperature control unit, art. no. 623299. Frame, 2-gang without central bridge piece in M-PLAN design, art. no. 5873...
Accessories: Labelling software, art. no. 615022. Fan Coil actuator REG-K Art.-Nr. 645093.
Transmitter: IR remote control Distance, art. no. 570222.

Note: For each device only one flat size 60 mounting box and one flush-mounted module are required.
Contents: With screw for tamper-proofing, adhesive label, barrier covering the IR receiver.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**627444**	1/17	9	
polar white, glossy	**627419**	1/17	9	
active white, glossy	**627425**	1/17	9	
Thermoplastic classy matt				
white	**623644**	1/17	9	
polar white	**623619**	1/17	9	
anthracite	**623614**	1/17	9	
aluminium	**623660**	1/17	9	

Duroplastic, highly scratch-resistant: With this article, use thermoplastic brilliant

Frame, 2-gang without central bridge piece

For M-PLAN.

Dimensions: 85.8 x 159 mm (HxW)

To be completed with: Orientation sign, art. no. System M 5869.., 5871.., 5868.., 5872.., multi-function push-button, 4-gang, with room temperature control unit, art. no. System M 6236.., 6274...

Version	Art. no.	PU	PG	Info
Thermoplastic classy matt				
white	**587344**	2/96	1	
polar white	**587319**	2/96	1	
anthracite	**587314**	2/96	1.1	
aluminium	**587360**	2/96	1.1	

Flush-mounted module for multi-function push-button with room temperature control unit

For the connection of multi-function push-buttons with room temperature control unit via an application interface.
For screw mounting in the size 60 installation box.
Flat design. With LED and push-button for programming.

Mounting depth: 20 mm

In KNX, to be completed with: Multi-function push-button, 2-gang, with room temperature control unit, art. no. System M 6232.., 6273, System Design 6287... Multi-function push-button, 2-gang, with room temperature control unit, art. no. System M 6274.., 6288, System Design 6236... PLANTEC multi-function push-button with room temperature control unit, art. no. 626008.
Accessories: Protective cover for plaster, art. no. 690098.

Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
	623299	1/50	9	

Multi-function push-button, 2-gang with room temperature control unit

Application module for System Design.
Convenient control unit with four operating buttons, operating display, four blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign.
With room temperature control unit and display.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day, display mode, time, switching times and brightness.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

KNX software functions:
Functions of the multi-function push-button:
Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, alarm functions, .the cyclic reading of external temperature values, fan control.
Functions of the room temperature control unit:
Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
Output: Continuous in the range 0..100% or switching ON/OFF
Controller mode:
- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs

Operating modes: comfort, comfort extension, standby, night economy, frost/heat protection
Operation: Menu

In KNX, to be completed with: Flush-mounted module for multi-function push-button with room temperature control unit, art. no. 623299.
Accessories: Labelling software, art. no. 615022. Fan Coil actuator REG-K Art.-Nr. 645093.
Note: If you already have the labelling software, you can download the form for the multi-function push-button at www.merten.com. Use to label conventional foils (max. thickness 0.1 mm).
Contents: Screw for protection against dismantling. With protective hood for plaster.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**628744**	1/17	9	
polar white	**628719**	1/17	9	
aluminium	**628760**	1/17	9	
metallic				
stainless steel	**628746**	1/17	9	

Multi-function push-button, 4-gang with room temperature control unit

Application module for System Design.
Convenient control unit with eight operating buttons, operating display, eight blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign.
With room temperature control unit and display.
With integrated piezoelectric buzzer to display alarm states and IR receiver. All functions of the respective buttons can be controlled via IR remote control Distance.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day, display mode, time, switching times and brightness.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

KNX software functions:
Functions of the multi-function push-button:
Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, alarm functions, .the cyclic reading of external temperature values, fan control.
Functions of the room temperature control unit:
Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
Output: Continuous in the range 0..100% or switching ON/OFF
Controller mode:
- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs

Operating modes: comfort, comfort extension, standby, night economy, frost/heat protection
Operation: Menu

In KNX, to be completed with: Flush-mounted module for multi-function push-button with room temperature control unit, art. no. 623299. ARTEC frame, 1.5-gang, art- no. 4819...
Accessories: Labelling software, art. no. 615022. Fan Coil actuator REG-K Art.-Nr. 645093.
Transmitter: IR remote control Distance, art. no. 570222.
Note: If you already have the labelling software, you can download the form for the multi-function push-button at www.merten.com. Use to label conventional foils (max. thickness 0.1 mm). For each device only one flat size 60 mounting box and one flush-mounted module are required.
Contents: With screw for tamper-proofing, adhesive label, barrier covering the IR receiver. With protective hood for plaster.

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**628844**	1/17	9	
polar white	**628819**	1/17	9	
aluminium	**628860**	1/17	9	
metallic				
stainless steel	**628846**	1/17	9	

ARTEC frame, 1.5-gang

Dimensions: 80.5 x 111.7 mm (WxH)

In KNX, to be completed with: Multi-function push-button, 4-gang, with room temperature control unit, art. no. System Design 6288...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**481944**	2/100	1	
polar white	**481919**	2/100	1	
aluminium	**481960**	2/100	1.2	
metallic				
stainless steel	**481946**	2/100	1.2	

Flush-mounted module for multi-function push-button with room temperature control unit

For the connection of multi-function push-buttons with room temperature control unit via an application interface.
For screw mounting in the size 60 installation box.
Flat design. With LED and push-button for programming.

Mounting depth: 20 mm

In KNX, to be completed with: Multi-function push-button, 2-gang, with room temperature control unit, art. no. System M 6232.., 6273, System Design 6287... Multi-function push-button, 2-gang, with room temperature control unit, art. no. System M 6274.., 6288, System Design 6236... PLANTEC multi-function push-button with room temperature control unit, art. no. 626008.
Accessories: Protective cover for plaster, art. no. 690098.
Contents: With bus connecting terminal.

Version	Art. no.	PU	PG	Info
	623299	1/50	9	

Room temperature control unit, flush-mounted/PI

Application module for System M.
The device can be used for heating and cooling with infinitely adjustable KNX valve drives or to control switch actuators.

KNX software functions:
Controller type: PI controller/2-step/3-step with switched integral-action component, 2-step heating, 2-step cooling
Output: Continuous in the range 0.. 100%, switching ON/OFF
Controller mode: Heating with one controller output, cooling with one controller output, heating and cooling with shared controller outputs, or heating and cooling with separate controller outputs.
Operating modes: Comfort, standby, night economy, frost protection, dew point alarm
Operation: Setpoint adjustment can be parameterised in the range with rotary knob; presence button functions can be parameterised/switched off

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099.
Accessories: Protective hood for plaster, System M, art. no. 627591...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white, glossy	**625944**	1/50	9	
polar white, glossy	**625919**	1/50	9	
active white, glossy	**625925**	1/50	9	
Thermoplastic classy matt				
white	**624744**	1/50	9	
polar white	**624719**	1/50	9	
anthracite	**624714**	1/50	9	
aluminium	**624760**	1/50	9	

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Room temperature control unit, flush-mounted/PI

Application module for System Design.
The device can be used for heating and cooling with infinitely adjustable KNX valve drives or to control switch actuators.

KNX software functions:
Controller type: PI controller/2-step/3-step with switched integral-action component, 2-step heating, 2-step cooling
Output: Continuous in the range 0.. 100%, switching ON/OFF
Controller mode: Heating with one controller output, cooling with one controller output, heating and cooling with shared controller outputs, or heating and cooling with separate controller outputs.
Operating modes: Comfort, standby, night economy, frost protection, dew point alarm
Operation: Setpoint adjustment can be parameterised in the range with rotary knob; presence button functions can be parameterised/switched off

In KNX, to be completed with: Bus coupler, flush-mounted, art. no. 690099.
Accessories: Protective hood for plaster, System Design, art. no. 628091...

Version	Art. no.	PU	PG	Info
Thermoplastic brilliant				
white	**624944**	1/50	9	
polar white	**624919**	1/50	9	
vanilla	**624982**	1/50	9	
ice blue	**624988**	1/50	9	
light grey	**624929**	1/50	9	
midnight blue	**624978**	1/50	9	
dark brazil	**624915**	1/50	9	
black grey	**624969**	1/50	9	
aluminium	**624960**	1/50	9	
metallic				
varnished stainless steel	**624946**	1/50	9	

EMO valve drive with 2 binary inputs

Electromotive proportional valve drive with integrated bus coupler and microprocessor control with automatic valve lift detection. With two integrated binary inputs.
The valve drive can be connected directly to the KNX. A separate power supply is not required.

KNX software functions:
Control value. Actual position. Status. Forced position (window "Open" detection, lower and upper limit for basic temperature control of underfloor heating for example). Binary inputs. Limit value.

Power consumption: typ. 10 mA
(= 240 mW; approx. 2 BCU modules)
Lift: min. 1.0 mm; max. 4.5 mm
Running time: 25 s/mm
Type of protection: IP 43 in line with EN 60529 (for vertical installation)
Protection class: III in line with EN 60730
Connecting cable: 1 m fixed; J(E)YY 3x2x0.6
Connection to bus line: via bus connecting terminal
Installation: suitable for all Heimeier thermostatic valve bodies and three-way changeover valves

Accessories: Programming magnet for valve drive EMO, art. no. 639190.

Version	Art. no.	PU	PG	Info
polar white	**639118**	1/30	9	

EMO valve drive

Electromotive proportional valve drive with integrated bus coupler and microprocessor control with automatic valve lift detection.
The valve drive can be connected directly to the KNX. A separate power supply is not required.

KNX software functions:
Setpoint position (control value). Actual position. Status signal. Forced position. Cyclical monitoring.

Power consumption: max. 12 mA at 20 V
(= 240 mW)
Lift: max. 4.5 mm
Running time: 25 s/mm
Type of protection: IP 43 in line with EN 60529 (for vertical installation)
Protection class: III in line with EN 60730
Connection cable: 1 m fixed; J-Y (St) Y 1 x 2 x 0.6
Connection to bus line: via bus connecting terminal
Installation: Fits all Heimeier thermostat valve bases

Accessories: Programming magnet for valve drive EMO, art. no. 639190.

Version	Art. no.	PU	PG	Info
polar white	**639119**	1/30	9	

Programming magnet for EMO valve drive

Non-contact programming of the physical address of the EMO valve drive or INSTABUS ARGUS 220.

In KNX, to be completed with:. . Valve drive EMO, art. no. 639119.. . Valve drive EMO, with 2 binary inputs, art. no. 639118.. . INSTABUS ARGUS 220 Connect, art. no. 6315....

Version	Art. no.	PU	PG	Info
	639190	10/180	9.1	

Fan Coil actuator REG-K

For heating, ventilation and air conditioning control. For controlling fan convectors with up to three speeds, as well as for controlling three-step motor drives (continuous/pulse-width-modulated) or two-step thermal drives. The valve drives are powered by the fan coil actuator.
For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. Connection of the temperature sensor available as an accessory for recording the actual temperature. Two floating binary inputs e.g. for window contacts. Connection of 1-speed to 3-speed fans. The unused fan switch outputs can alternatively be used as switch actuator channels. **The multi-function push-button with room temperature control version 3A onwards can be used to control the fan coil actuator.**

KNX software functions:
Fan control:
In automatic mode, the fan speeds are controlled dependently by the control value of the multi-function push-button. The three fan speeds and automatic mode can be switched via EIB telegram. The fan can be controlled either directly or via actuators / suitable dimming actuators. Fan speed feedback is possible via corresponding status feedback objects e.g. status LED of the push-button. The fan speed as well as the automatic status "(Auto)" can be displayed on the display of the multi-function push-button with TCU.
Valve control:
Type of controller: PI controller (PWM and continuous).
Controller mode: Heating and/or cooling with common or separate valve outputs.
Operating modes: The operating mode is selected in the multi-function push-button with TCU
Temperature measurement:
The actual temperature can be measured locally by the actuator and sent cyclically to the bus.

Power supply: Integrated power supply unit AC 230 V ±10%, 50/60 Hz
Power consumption: 5 VA
Outputs: 3 floating contacts (fan coil), 2 semi-conductor switches (valve connections)
Inputs: 2 for signalling contacts, 1 for temperature sensor
Bus connection: EIB connecting terminal
Device width: 6 modules = approx. 108 mm

- **Accessories:** Temperature sensor, art. no. 645091. Multi-function push-button with room temperature control unit, art. no. 6232.., 6273.. , 6236..,6274.., 6287.., 6288.., 626008.
- **Note:** Only in conjunction with the Multi-function push-button with room temperature control unit, art. nos. 6232.., 6273.. , 6236..,6274.., 6287.., 6288.., 626008 **from version 3A.**
  Availability: Available June 2007.

Version	Art. no.	PU	PG	Info
light grey	**645093**	1/18	9.3	

Temperature sensor

The sensor for temperature recording is connected to the fan coil controller REG-K.

Cable length: max. 30 m

- **In KNX, to be completed with:** Fan coil controller REG-K, art. no. 645029. Fan coil controller REG-K, art. no. 645093.
- **Contents:** With 2 m connecting cable and plug.

Version	Art. no.	PU	PG	Info
	645091	1/100	9.3	

Heating actuator REG-K/6x230/0.05 A

For actuation of thermoelectric valve drives for heating or cooling ceilings. The heating actuator has 6 electronic outputs. Up to 4 valve drives can be connected to each output. The outputs are either switch activated (1 bit) or PWM signal (1 byte) activated. Each output is overload-protected and short-circuit-protected.
For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.

KNX software functions:
Cycle time, status feedback, summer and winter operation, cyclical monitoring of variables, locking each output in a forced position, behaviour on bus power failure and recovery, overload and short circuit status, mains power loss reporting, collective fault reporting connected to all valves, transmission of the largest 1 byte variable value.

Nominal voltage: AC 230 V, 50-60 Hz
Outputs: 6, electronic
Nominal current: 0.05 A, ohmic
Starting current: max. 1.5 A
Minimum load per used output: 1 valve drive
Number of valve drives max. 4 per output
Device width: 4 modules = approx. 72 mm

- **In KNX, to be completed with:** PLANTEC multi-function push-button with room temperature control unit, art. no. 626008. Multi-function push-button, 2-gang, with room temperature control unit, art. no. System M 6232.., 6273, System Design 6287... Multi-function push-button, 2-gang, with room temperature control unit, art. no. System M 6274.., 6288, System Design 6236... Room temperature control unit, flush-mounted/PI, art. no. 6247.., 6249.., 6246.., 6248... Thermoelectric valve drive 230 V, art. no. 639125.
- **Contents:** With bus connecting terminal and cable cover.

Version	Art. no.	PU	PG	Info
light grey	**645129**	1/10	9.3	

Thermoelectric valve drive 230 V

Thermoelectric valve drive for opening and closing valves. For 2-step or PWM control of heating, air conditioning and ventilation systems, individual room control of surface heaters, control of heating circuit distributors, radiators, convector heaters, cooling ceilings. Operation is carried out by the heating actuator REG-K/ 6x230/0.05 A or a room temperature control unit (230 V) with 2-step or PWM output.
Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors.

Functions:

- First-open function: The drive is factory-set to de-energised open. This allows the heating to be operated during the building shell phase.
- De-energised closed
- Functional display (open, closed, intermediate settings)
- Adjustment control
- Protection against dismantling
- Plug-in connecting cable
- Plug-in assembly

Supply voltage: AC 230 V, 50/60 Hz
Starting current: max. 300 mA for max. 200 ms
Operating current: 8 mA
Power consumption: 1.8 W
Lift: approx. 4 mm
Running time: 45 s/mm
Positioning force: 100 N
Circulating medium temperature: 0-100 °C
Type of protection: IP 54 / II, in all installations
Connecting cable: 1 m, 2x0.75 mm² PVC
Dimensions: 60x44x61 mm (HxWxD)

To be completed with: Room temperature control insert with switch, art. no. 536302. Valve adapter VA10, art. no. 639110. Valve adapter VA50, art. no 639150. Valve adapter VA78, art. no. 639178. Valve adapter VA80, art. no. 639180.
In KNX, to be completed with: Heating actuator REG-K/6x230/0.05 A, art. no. 645129.

Version	Art. no.	PU	PG	Info
polar white	**639125**	1/50	9	

Thermoelectric valve drive 24 V

Thermoelectric valve drive for opening and closing valves. For 2-step or PWM control of heating, air conditioning and ventilation systems, individual room control of surface heaters, control of heating circuit distributors, radiators, convector heaters, cooling ceilings. Operation is carried out by the fan coil controller REG-K or a room temperature control unit (24 V) with 2-step or PWM output.
Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors.

Functions:

- First-open function: The drive is factory-set to de-energised open. This allows the heating to be operated during the building shell phase.
- De-energised closed
- Functional display (open, closed, intermediate settings)
- Adjustment control
- Protection against dismantling
- Plug-in connecting cable
- Plug-in assembly

Supply voltage: AC/DC 24 V + 20%/- 10%, 0-60 Hz
Starting current: max. 250 mA for max. 2 min
Operating current: 80 mA
Power consumption: 2 W
Lift: approx. 3 mm
Running time: 60 s/mm
Positioning force: 90 N
Circulating medium temperature: 0-100 °C
Type of protection: IP 44 / II
Connecting cable: 1 m fixed, 2x0.5 mm
Dimensions: 53x43x53 mm (HxWxD)

To be completed with: Room temperature control insert with switch, art. no. 536304. Power supply REG, AC 24 V / 1 A, art. no. 663529. Valve adapter VA10, art. no. 639110. Valve adapter VA50, art. no 639150. Valve adapter VA78, art. no. 639178. Valve adapter VA80, art. no. 639180.
In KNX, to be completed with: Fan coil controller REG-K, art. no. 645029.

Note: Protective cap AA SK 1000 (aluminium, white RAL 9016) available on request. To install the protective cap, a higher valve adapter must be used (available on request). Check compact radiators in advance to see if they are suitable.

Version	Art. no.	PU	PG	Info
polar white	**639124**	1/70	9	

Valve adapter VA10 for thermoelectric valve drive

For Dumser, Vescal, Simplex.
Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors

To be completed with: Thermoelectric valve drive 230 V, art. no. 639125. Thermoelectric valve drive 24 V, art. no. 639124.

Version	Art. no.	PU	PG	Info
	639110	5/400	9	

Valve adapter VA50 for thermoelectric valve drive

For Honeywell+Braukmann, Reich, Landis+Gyr, MNG, Cazzagniga.
Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors

To be completed with: Thermoelectric valve drive 230 V, art. no. 639125. Thermoelectric valve drive 24 V, art. no. 639124.

Version	Art. no.	PU	PG	Info
	639150	5/400	9	

Valve adapter VA78 for thermoelectric valve drive

For Danfoss RA.
Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors

To be completed with: Thermoelectric valve drive 230 V, art. no. 639125. Thermoelectric valve drive 24 V, art. no. 639124.

Version	Art. no.	PU	PG	Info
	639178	5/400	9	

Valve adapter VA80 for thermoelectric valve drive

For Heimeier, Herb, Onda, Schlösser (from 1993), Oventrop M30x1.5, TeSa.
Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors

To be completed with: Thermoelectric valve drive 230 V, art. no. 639125. Thermoelectric valve drive 24 V, art. no. 639124.

Version	Art. no.	PU	PG	Info
	639180	5/400	9	

Fan coil controller

Fan coil controller REG-K

For heating, ventilation and air conditioning control. For controlling fan convectors with up to three speeds, as well as for controlling three-step motor drives (continuous/pulse-width-modulated) or two-step thermal drives. Alternatively, the valve drives can also be controlled via EIB. The valve drives are powered by the fan coil controller.
For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. Connection of the temperature sensor available as an accessory for recording the actual temperature and control potentiometer for setpoint adjustment. Two floating binary inputs for window contact and level contact for condensed water container. Connection of 1-speed to 3-speed fans. The unused fan switch outputs can alternatively be used as switch actuator channels. The flush-mounted room control units, the multi-function push-button with room temperature control unit or a control potentiometer can be used to control the fan coil controller.

KNX software functions:
Fan control:
In automatic mode, the fan speeds are activated depending on the control value of the controller. The three fan speeds and automatic mode can be switched via EIB telegram. The fan can be controlled either directly or via actuators / suitable dimming actuators.
Valve control:
Type of thermostat: PI controller (PWM and continuous).
Controller mode: Heating and/or cooling with common or separate controller outputs.
Operating modes: Comfort. Comfort extension. Standby. Night economy. Frost/heat protection.

Power supply: Integrated power supply unit AC 230 V ±10%, 50/60 Hz
Power consumption: 5 VA
Outputs: 3 floating contacts (fan coil), 2 semi-conductor switches (valve connections)
Inputs: 2 for signalling contacts, 1 for temperature sensor
Bus connection: EIB connecting terminal
Device width: 6 modules = approx. 108 mm

Accessories: Temperature sensor, art. no. 645091.
Note: The fan coil controller cannot be combined with the multi-function push-buttons on the room temperature control unit. The fan coil controller can also be operated without an EIB connection.

Version	Art. no.	PU	PG	Info
light grey	**645029**	1/18	9.3	

Temperature sensor

The sensor for temperature recording is connected to the fan coil controller REG-K.

Cable length: max. 30 m

In KNX, to be completed with: Fan coil controller REG-K, art. no. 645029. Fan coil controller REG-K, art. no. 645093.
Contents: With 2 m connecting cable and plug.

Version	Art. no.	PU	PG	Info
	645091	1/100	9.3	

Power supplies

Power supply REG, 24 V DC / 0.4 A

Power supply for 24 V binary inputs, IC 1 EIB Internet controller REG-K, panel control REG-K.
For installation onto DIN rails EN 50022.
With integrated overload and short-circuit protection.

Primary supply: AC 230 V, 48-63 Hz
Output voltage: DC 24 V +/- 3 %
Output current: max. 0.4 A
Output power: max. 10 W
Device width: 1 module = approx. 18 mm

For supplying power to: Binary input REG-K/4x24 art. no. 644890. Binary input REG-K/8x24 art. no. 644790. Binary input REG-K/8x24 art. no. 644792. IC 1 EIB Internet controller merten@home REG-K, art. no. 6951... Panel control REG-K/12x24 art. no. 675001. Panel control REG-K/8-4x24 art. no. 675101. Universal I/O panel control REG-K/32x24 art. no. 675201. KNX/IP router REG-K art. no. 680329.

Version	Art. no.	PU	PG	Info
	693003	1/60	9.3	

Power supply REG, 24 V DC / 1 A

Power supply for 24 V binary inputs, IC 1 EIB Internet controller REG-K, panel control REG-K.
For installation onto DIN rails EN 50022.
With integrated overload and short-circuit protection.

Primary supply: AC 90-260 V, 48-63 Hz
Output voltage: DC 24 V +/- 3 %
Output current: max. 1 A
Output power: max. 24 W
Device width: 5 modules = approx. 90 mm

For supplying power to: Binary input REG-K/4x24 art. no. 644890. Binary input REG-K/8x24 art. no. 644790. Binary input REG-K/8x24 art. no. 644792. IC 1 EIB Internet controller merten@home REG-K, art. no. 6951... Panel control REG-K/12x24 art. no. 675001. Panel control REG-K/8-4x24 art. no. 675101. Universal I/O panel control REG-K/32x24 art. no. 675201. IP touch panel 10" art. no. 683090.

Version	Art. no.	PU	PG	Info
	693004	1/15	9.3	

Power supply REG, AC 24 V/1 A

Power supply for 24 V binary inputs, weather station REG-K/4-gang, analogue input module REG-K/4-gang, rain sensor, wind sensor with 0-10 V interface and heating.
For installation onto DIN rails EN 50022.
With fuse.

Primary supply: AC 230 V, +/- 10 %, 50-60 Hz
Output voltage: AC 24 V
Output current: max. 1 A
Fuse: 5x20 mm, 250 V, T 160 mA
Device width: 5 modules = approx. 90 mm

For supplying power to: Binary input REG-K/4x24 art. no. 644890. Binary input REG-K/8x24 art. no. 644790. Binary input REG-K/8x24 art. no. 644792. Weather station REG-K/4-gang, art. no. 682991. Analogue input module REG/4-gang Art. No. 682192. Rain sensor for art. no. 663595. Wind sensor with 0-10V interface and heating, art. no. 663592.

Contents: With spare fuse.

Version	Art. no.	PU	PG	Info
	663529	1/15	9.3	

Teaching aids

Merten info CD

The Merten info CD contains information and data on the products.

Contents:

- KNX product manual. The book provides detailed descriptions of KNX devices with electrical and mechanical data, as well as descriptions of the application programs and the parameters that can be configured.
- Product databases (German/English)
- Mini-function module tool software
- PLANTEC tool software PTS
- Panel programming software EIB TAB 2.
- Programming software ETS tool for MT 701 V2.0
- Display tool software DTS
- ETS tool for weather station
- IC 1 Configuration Cloner, IP Changer
- Tender documents (Ansi/Gaeb format)
- Documentation on Merten products

Language: German.

Version	Art. no.	PU	PG	Info
	616002	1/1	9.9	

ZVEI/ZVEH Building Services Management Manual, Basics

Manufacturer-neutral description of EIB with hints for planning, engineering, installation and commissioning.

Language: German.

Version	Art. no.	PU	PG	Info
	616001	1/1	9.9	

ZVEI/ZVEH Building Services Management Manual, Applications

The manual gives selected examples of representative EIB installations.

Language: German.

Version	Art. no.	PU	PG	Info
	616003	1/1	9.9	

Merten CD

The interactive CD gives comprehensive information on the subject of KNX.
Uses typical situations in homes, offices and hotels to show how Merten KNX makes life and work easier, more flexible, more productive and more secure. The CD leads you through the Merten product spectrum, giving ideas for new function and demonstrating solutions. Checklists help you determine what components you need, so that system planning can be performed even more efficiently.

Note: The CD can be ordered over the Internet at www.mymerten.com.
Language: German. English. French. Spanish. Italian. Portuguese. Dutch. Polish. Swedish. Norwegian. Russian. Chinese.